

2011

Annual Environmental Report

For

Barna Waste T/A Joe Mc Loughlin Waste Disposal Limited

Waste Licence no. W0216-01

Prepared by:

ANN CLARKE

FACILITY MANAGER

BARNA WASTE T/A JOE MC LOUGHLIN WASTE DISPOSAL LTD.

Contents

1.0 Reporting Period 4

2.0 Waste Activities Carried out at the Facility 4

3.0 Quantity & Composition of Waste Recovered 7

4.0 Environmental Monitoring 8

- 4.1. Dust Monitoring 8
- 4.2. Noise Monitoring 9
- 4.3. Surface Water Monitoring 10

5.0 Resource & Energy Consumption 11

6.0 Developmental & Infrastructural Works 12

7.0 Objectives & Targets 13

- 7.1. Schedule of Objectives & Targets **Error! Bookmark not defined.**
- 7.2. Environmental Management Programme – report for previous year 14 & 15
- 7.3. Environmental Management Programme – proposal for current year 16

8.0. Environmental Incidents & Complaints 17

9.0. Pollution Emission Register – Report for Previous year 17

10.0. Pollution Emission Register – Proposal for Current year 17

11.0. Other Information 17

- 11.1. Tank & Pipeline Testing & Inspection Report 17
- 11.2. Energy Efficiency Audit Report Summary 17
- 11.3. Efficiency of use of Raw Materials 17
- 11.4. Water & Trade Effluent Discharge – Progress made/Proposals 17
- 11.5. Financial Provision 17
- 11.6. Management & Staffing Structure 18
- 11.7. Programme for Public Information 18
- 11.8. Statement of measures in relation to prevention of environmental damage & remedial action 18

Tables

Table 1: Quantity & Composition of Waste.....	7
Table 2: Dust Monitoring Result.....	8
Table 3: Noise Monitoring Results.....	9
Table 4: SW1 Water Monitoring Results.....	10
Table 5: SW2 Water Monitoring Results.....	10
Table 6: Schedule of Objectives & Targets – General 1 year plan.....	13

Appendices

Appendix 1: Location of Monitoring Points

Appendix 2: Dust Monitoring Results

Appendix 3: Noise Monitoring Results

Appendix 4: Additional Information

Appendix 5: Fire Hydrant & Water Flow Reading

Appendix 6: Pollution Emission Data Information

Introduction

This Annual Environmental Report (AER) has been prepared in accordance with the requirements of condition 11.7 of Waste Licence ref. no. W0216-01. Joe Mc Loughlin Waste Disposal was issued with a waste licence on 24th of February 2006 for the operation of their waste transfer facility in Ardcolumn, Drumshanbo, Co. Leitrim the licence was transferred to Barna Waste, on 28th of October 2009. The facility is licensed to handle 24,900 tonnes of waste per annum.

1.0 Reporting Period

This report covers the time period from the 1st of January 2011 to the 31st of December 2011. This is the Sixth Annual Environmental Report (AER) for submission to the EPA. This report contains all the relevant information as detailed in Schedule F of the Waste Licence.

2.0 Waste Activities Carried out at the Facility

Joe Mc Loughlin Waste Disposal Ltd. is licensed to accept non-hazardous waste at its waste licensed facility in Drumshanbo, Co. Leitrim. Specific waste types acceptable at this facility include Mixed Municipal Waste, Mixed Dry Recyclables/Kerbside, Packaging Waste, C&D, Scrap Metal, Glass and Biodegradable Waste. The total quantity of Waste acceptable under the waste licence conditions is 24,900 tonnes. The total quantity of waste accepted at the premises in the reporting period was 11,625 tonnes. The principal activities carried out at the facility include:

Mixed Municipal Waste (EWC 20 03 01)

Mixed Municipal Waste (MMW) is accepted from three sources; a) Municipal Waste from households & commercial premises and Municipal Waste from skips. MMW is stored in the waste transfer facility prior to removal.

Mixed Municipal Waste from Bin Lorries and Skips is tipped onto the waste transfer floor and any contaminants are removed prior to loading into an Ejector trailer. Trailers carrying MMW depart from site approximately twice every day and transfer this waste directly to Landfill / Incinerator. Four outlets have been utilised for MMW in the past year namely Indaver Incinerator, Carranstown, Duleek, Co. Meath, Drehid Landfill, Carbury, Naas, Co. Kildare, Derryclure Landfill, Tullamore, Co. Offaly and Kilconnell Landfill, Ballinsloe, Co. Galway.

Mixed Dry Recyclables (MDR) (EWC 20 01 99)

Mixed Dry Recyclables are collected from households and commercial premises on alternative weeks, i.e. Kerbside collection. This material is tipped onto the waste transfer floor and any contaminants are removed prior to loading into an Ejector trailer. The Mixed Dry Recyclables are then transported to Barna Waste Ltd. Recycling Depot Co. Galway for sorting on their picking line and then sent onto a recycling outlet.

Plastic Packaging (EWC 15 01 02)

Plastic packaging waste from commercial outlets is segregated in the waste transfer building, prior to transfer. Two outlets have been utilised for plastic recycling in the past year, namely Barna Waste Ltd. Recycling Depot Co. Galway and Retech Processing Ltd. Cavan Road, Co. Cavan.

Metal (EWC 20 01 40)

Metal is collected directly from Commercial customers, or is segregated out of mixed commercial skips. Metal waste is sorted and placed into a skip. On accumulation of sufficient quantities metal waste is removed to a recycling facility. Two outlets have been utilised for metal recycling in the past year, namely Wilton Waste & Recycling Ltd. and Barna Waste Ltd. Recycling Depot Co. Galway.

Paper (EWC 20 01 01)

Paper is collected from customers over the weighbridge it is then stored in the Recycling shed. It is transported along with the mixed dry recyclables to Barna Waste Ltd. Recycling Depot Co. Galway for sorting on their picking line and then sent onto a recycling outlet.

Cardboard Packaging (EWC 15 01 01)

Cardboard packaging is collected from commercial outlets and from customers over the weighbridge it is further segregated on site to remove any contaminants. Cardboard is then stored in the Recycling Shed prior to shipment to Barna Waste Ltd. Recycling Depot, Co. Galway for sorting on their picking line and then being sent onto a recycling outlet .

Wood (EWC 17 02 01)

Timber from commercial waste skips, and domestic skips is tipped onto the floor of the waste transfer building. This waste is segregated to remove any contaminants. The wood is transferred into an ejector trailer prior to removal to Arigna Fuels Ltd. where it is used in the operation of a stream boiler.

Construction & Demolition (C&D) Rubble (EWC 17 01 07)

Mixed waste from Commercial waste skips is tipped onto the floor of the waste transfer building. Manual segregation is used to pick out large items such as concrete, bricks, stones, etc. The rubble is then loaded into bighooks prior to use as in-fill. One outlets has been utilised for Rubble in the last year namely Mc Weeney, Tonagh, Co. Leitrim.

Construction & Demolition (C&D) Soil & Stone (17 05 04)

Mixed waste from Commercial waste skips is tipped onto the floor of the waste transfer building. The soil & stone is segregated, it is then trolled and loaded into bighooks prior to use as in-fill. Three outlets have been utilised for Soil & Stone in the past year, namely Bergin Waste Disposal, Ballaghaderreen, Co. Roscommon, Harrington, Ballisodare, Co. Sligo and Patrick Gaynor, Castlerea, Co. Roscommon.

Construction & Demolition (C&D) Gypsum (EWC 17 08 02)

Mixed waste from Commercial waste skips is tipped onto the floor of the waste transfer building. Manual segregation is used to pick out large items such as concrete, bricks, stones, etc. the Gypsum is then segregated and loaded into bighooks. On accumulation of sufficient quantities the Gypsum is transferred to EnviroGrind, Pettigo, Co Donegal.

Glass (EWC 15 01 07)

Mixed Glass is collected in a glass lorry directly from commercial customers. It is stored in a segregated area, where it is tipped and any contaminants are removed. On accumulation of sufficient quantities it is loaded with a low loader into an ejector trailer and transferred to Glassdon Ltd. Co. Antrim for recycling.

Tyres (EWC 16 01 03)

Over a period of time we accumulate a sufficient number of car tyres from skips. The tyres are segregated on site, the rims are removed from the tyres and placed in the Metal Skip for recycling, and then the tyres are stored on site. On accumulation of sufficient quantities the tyres are transferred to Barna Waste Ltd. Recycling Depot Co. Galway where they are sorted and then sent onto a recycling outlet.

Biodegradable Waste (EWC 20 02 01)

Biodegradable Waste from garden and park waste comes from amenity sites and casual customers over the Weighbridge, this waste is trommelled and used as in-fill. Three outlets have been utilised in the last year namely Mc Weeney, Tonagh, Co. Roscommon, Harrington Ballisodare, Co. Sligo and Patrick Gaynor Castlerea, Co. Roscommon.

Biodegradable Kitchen and Canteen Waste (EWC 20 01 08)

Biodegradable kitchen and canteen waste is collected from commercial premises and domestic households; the waste is collected in a compost lorry. The commercial waste is collected weekly and the domestic waste is collected on alternative weeks, i.e. Kerbside collection this waste is not tipped at the waste facility it goes straight to a compost facility namely EnviroGrind, Pettigo, Co Donegal.

Clothes (EWC 20 01 10)

Clothes are collected from skips and casual customers over the weighbridge. The Clothes are segregated and placed in a clothing recycling container which is emptied every month by Textile Recycling the clothes are brought to their facility in Belgard, Tallaght, Dublin 24 where they are sorted and then sent onto a recycling outlet.

3.0 Quantity & Composition of Waste Recovered

The following table details the total waste tonnage accepted at the facility in 2011. The table also details the end destination for recycled and disposed waste.

Table 1: Quantity & Composition of Waste

EWC	Description	In	Out	Destination
20 03 01	Mixed Municipal Waste	7456	845	Indaver Incinerator, Carranstown, Duleek, Co. Meath
			1959	Drehid Landfill, Naas, Co. Kildare
			789	Derryclure Landfill, Tullamore, Co. Offaly
			3863	Kilconnell Landfill, Ballinsloe, Co. Galway
20 01 99	Mixed Dry Recyclables	1617	876	Barna Waste & Recycling, Co. Galway.
17 09 04	Skips	1620	761	Barna Waste & Recycling, Co. Galway.
			859	Kilconnell Landfill, Ballinsloe, Co. Galway
17 02 01	Woodchip/Timber	48	198	Arigna Fuels Ltd. Arigna, Co. Roscommon.
15 01 01	Cardboard	272	224	Barna Waste & Recycling Ltd. Co. Galway
20 01 01	Paper	0.62	0.62	Barna Waste & Recycling Ltd. Co. Galway
15 01 02	Plastic	6	8	Retech Processing Ltd. Cavan Road, Co. Cavan.
			19	Barna Waste & Recycling Ltd. Co. Galway
15 01 07	Glass	177	172	Glassdon Ltd. Toomebridge, Co. Antrim
17 01 07	Mixed C&D Rubble	382	382	Mc Weeney, Tonagh, Co. Leitrim
17 05 04	Soil & Stone	0	48	Bergin Waste Disposal, Ballaghaderreen, Co. Roscommon
			68	Harrington, Ballisodare, Co. Sligo
			99	Patrick Gaynor, Castlerea, Co. Roscommon
20 02 01	Grass	0.56	0.56	Mc Weeney, Tonagh, Co. Leitrim
20 01 40	Scrap Metal	11.5	110	Wilton Waste Recycling Ltd. Co. Cavan
			19	Barna Waste & Recycling, Co. Galway.
20 01 10	Clothes	0.32	0.32	Textile Recycling Ltd. Dublin 24
16 01 03	Tyres	17	17	Barna Waste & Recycling, Co. Galway.
20 01 08	Biodegradable Waste	0	441	EnviroGrind Pettigo, Co. Donegal
17 08 02	Gypsum	17	42	EnviroGrind Pettigo, Co. Donegal

TOTAL	11625	11800
Recycling Tonnage		3486
Disposal Tonnage		8314
Recycling Rate		30%

The total quantity of waste recycled in this reporting period was 3486 Tonnes, out of a total tonnage of 11800 managed at the premises. This means that a recycling rate of 30% was achieved at the facility in the period from 1st January 2011 to the 31st December 2011.

4.0 Environmental Monitoring

Monitoring of Dust, Noise, and Surface Water were carried out at the facility in 2011. Copies of monitoring reports are included in the appendices of this report. A plan detailing the monitoring locations at the site are included in Appendix 1.

4.1 Dust Monitoring

Monitoring Locations

Four dust monitoring gauges (D1, D2, D3, and D4) were installed at the facility in July 2006 and are utilised for dust monitoring. The location of these dust gauges is illustrated in the Monitoring Points Location plan located in Appendix 1.

Methodology

Dust monitoring has been reduced to twice annually during the period May to September at the premises in accordance with condition 6.10. Dust monitoring has been carried out in accordance with Schedule C6 by Complete Laboratory Solutions. Bergerhoff gauges were utilised as specified in the German Institute VD1 2119 Measurement of Dustfall using the Bergerhoff (Standard) method.

Results

The results of Dust monitoring for 2011 are outlined below:

Table 2: Dust monitoring results

Monitoring Point	Licence Limit (mg/m²/day)	Round 1 July – August 2011 (mg/m²/day)	Round 2 August - September 2011 (mg/m²/day)
D1	350	274	152
D2	350	74	107
D3	350	115	134
D4	350	180	143

Round 1

Dust gauges were erected on the 4th of July 2011 and removed on the 5th of August 2011. The highest Level of dust was recorded at D1 (274 mg/m²/day) this was below the licence limit value of 350 mg/m²/day.

Round 2

Dust gauges were erected on the 5th of August 2011 and removed on 5th of September 2011. The highest level of dust was recorded at D1 (152 mg/m²/day) this was well below the Licence Limit value of 350 mg/m²/day.

The Dust monitoring results indicate that the dust level's at Mc Loughlin's Waste Disposal Transfer Facility, are within the licence limits and therefore not likely to cause nuisance. Copies of dust monitoring reports are included in Appendix 2.

4.2 Noise Monitoring

Monitoring Locations

Noise monitoring was carried out at 8 locations: N1 – N8. The location of monitoring points is included in Appendix 1. N1-N4 are onsite monitoring points; N5 –N8, are defined as noise sensitive Locations, and are located at various points outside the site.

Methodology

Noise assessment was carried out by Emerald Environmental Services, on the 13th of October 2011 in accordance with the EPA Environmental Noise Survey Guidance Document.

Noise levels were recorded using a Bruel and Kjaer 2238 integrating sound level meter. Calibrations levels were checked at the start and end of the monitoring with no significant drift in calibration recorded.

Throughout the monitoring period, the microphone was situated 1.5m above ground level and the monitoring technique was based on methodologies as outlined in ISO 1996 Acoustics – Description and measurement of environmental noise.

LAeq – Equivalent Continuous A weighted Sound Level.

LA₁₀ – Noise level exceeded for 10% of the measurement time.

LA₉₀ – Noise level exceeded for 90% of the measurement time.

Results

The results in Table 3 below demonstrate that noise levels at the facility are within the limits of 55dB (a) set down in schedule C1 of waste licence no. W0216-01. A copy of the noise monitoring report is included in Appendix 3.

Table 3: Noise Monitoring Results

Monitoring Point	Licence Limit LAeqdB(A)	LAeq (30)dB(A)	LA₁₀ (30)dB(A)	LA₉₀ (30)dB(A)
N1		63.6	67.5	45.1
N2		63.8	54.0	64.5
N3		66.3	69.8	42.4
N4		54.9	44.5	59.5
N5	55	65.8	43.5	66.0
N6	55	46.4	37.5	49.0
N7	55	42.4	34.5	45.5
N8	55	46.0	31.5	50.5

A daytime noise limit of 55dB (A) should be applied to the Leq at all noise sensitive locations (EPA recommendations). Monitoring points N5-N8 are all regarded as noise sensitive locations.

All results were below the EPA limit of 55dB (A), with the exception of N5 which registered at 65.8 LeqdB (A). However it can be determined that the operation of the waste transfer facility is not having any substantial negative effect on the nearest sensitive receptors. Any noise on site was short intermittent bursts and was not for any prolonged period of time. A full copy of the environmental noise survey is included in Appendix 3.

4.3 Surface Water Monitoring

Methodology

Water monitoring was reduced to Quarterly for all parameters at the premises in June 2007 in accordance with condition 6.10.

Two 1 litre samples of water are collected from 2 surface water monitoring points, SW1 (the lake adjacent to the facility), and SW2 (the stream that flows along the boundary of the site, into the lake).

There was insufficient flow at monitoring point SW2 during the period of Quarter 4 to obtain a sample for analysis.

Samples were taken by the Fitz Scientific personnel and brought to their laboratory for analysis.

Results

The results of surface water monitoring for both monitoring points is outlined in the 2 tables below. All parameters analysed were within the limits specified in the waste licence.

Table 4: SW1 Water Monitoring Results

Parameter	pH	Conductivity (mS/cm)	Suspended Solids mg/L	COD mg/L	Ammonia mg/L	Mineral Oils mg/L
Licence Limit						5
17.01.11	7.4	485	9	29	0.224	0.074
12.05.11	7.7	394	3	13	0.142	<0.0025
05.09.11	7.4	293	3	70	0.063	<0.0025
02.12.11	7.1	396	19	21	0.036	<0.0025

Table 5: SW2 Water Monitoring Results

Parameter	pH	Conductivity (mS/cm)	Suspended Solids mg/L	COD mg/L	Ammonia mg/L	Mineral Oils mg/L
Licence Limit						5
17.01.11	7.4	423	9	17	0.72	<0.0025
12.05.11	7.7	446	6	28	0.141	<0.0025
05.09.11	7.6	663	7	59	0.122	<0.0025
02.12.11	Insufficient Flow for Sampling					

5.0 Resource & Energy Consumption

- 4.1.1 Condition 7.1 of Waste Licence W0216-01 'Resource Use and Energy Efficiency' requires the licensee to carry out an Audit of the Energy Efficiency of the site in accordance with the guidance published by the Agency "Guidance Note on Energy Efficiency Auditing" the Energy Efficiency audit shall be repeated at intervals as required by the Agency.

An Energy Audit was carried out on 14th of June 2007 by Environmental Efficiency Consulting Engineers.

- 4.1.2 Condition 7.2 of Waste Licence W0216-01 the audit shall identify all opportunities for Energy Use Reduction and Efficiency, and the recommendations of the audit will be incorporated into the Schedule of Environmental Objectives and Targets.

The recommendations were put in place and incorporated into the Schedule of Environmental Objectives and Targets.

- 4.1.3 Condition 7.3 of Waste Licence W0216-01 requires the licensee to identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, wherever possible. Reductions in water usage shall be incorporated into the Schedule of Environmental Objectives and Targets.

An assessment was carried out on methods to reduce water usage on site. Meters were installed on our fire hydrant and water mains to record and monitor the usage accordingly; these have been incorporated into the Schedule of Environmental Objectives and Targets. Copies of readings of hydrant and water mains are attached in Appendix 5.

- 4.1.4 Condition 7.4 of Waste Licence W0216-01 requires the licensee to undertake an assessment of the efficiency of use of raw materials in all processes, having particular regard to the reduction in waste generated. The assessment should take account of best international practice for this type of activity. Where improvements are identified, these shall be incorporated into the Schedule of Environmental Objectives and Targets.

An assessment of use of raw material was carried out in 2009 by doing two characterisation studies one from rural areas and the other from Urban; this data was used to identify ways to reduce waste generation and has been incorporated into the Schedule of Environmental Objective & Targets.

We instigated our Biodegradable waste bin in 2010 to our commercial customers

In 2011 we instigated our Biodegradable waste bin to our domestic customers.

There is a lot of work to be done to make the Biodegradable waste collection a success; we are working with our customers and local authorities to increase the customer's participation and co operation.

We are continually working to improve the structure of our domestic routes to make us more efficient / economical. Where improvements are identified, these shall be incorporated into the Schedule of Environmental Objectives and Targets.

We are working with our Sister sites to develop a portfolio to identify local markets for recyclable materials to reduce our carbon footprint.

6.0 Developmental & Infrastructural Works

Most development works were carried out at McLoughlin's Waste Disposal Ltd. in 2005 to achieve a satisfactory standard for a waste transfer facility. Infrastructural works carried out early in 2006 included the installation of a trommel and a picking line for the segregation of Mixed/Contaminated recyclables.

Infrastructural works carried out early in 2007 included the construction of a Percolation Area, which was designed and supervised by Advanced Planning & Design Services in accordance with EPA Waste Water Treatment Manual – treatment systems for single houses. A high level alarm was fitted on the waste water storage tank. Shut off valves were fitted on surface water drainage system.

Development work carried out in 2009 consisted of installing of a meter on our fire hydrant.

Development work carried out in 2010 consisted of installing a meter on our water mains.

There was no development/infrastructural works carried out in 2011.

There is currently no development/infrastructure works planned for 2012.

7.0 Objectives & Targets

7.1. Table 6: Schedule of Objectives & Targets – General 1 year plan

Ref no.	Licence Cond. no.	Objectives	Targets
1		Recycling & Waste Management	Review Recycling rates and set revised targets on an annual basis. Upgrade waste/recycling infrastructure on site to increase site capacity in line with waste intakes/processing requirements.
2	2	Environmental Management System	Continue the review and development of the Environmental Management System.
3		Training	Review all staff training records regularly to identify training requirements, ensure all staff are trained in and aware of the Waste Licence requirements. Investigate the possibility of getting a back-up Facility Manager put through the FAS Waste Management Course.
4		Health & Safety	Carry out a full site review of H&S procedures and implement improvements to ensure HSA inspections which are to be carried out during 2012 are passed.
5	3	Infrastructure & Operation	Carry out the integrity and water tightness of all bunding structures. Improve the structure of our domestic routes to make us more efficient / economical. Identify local markets for recyclable materials to reduce our carbon footprint and develop a portfolio of possible outlets for all our materials.
6	5	Emissions Monitoring	Maintain the Emissions Monitoring Programme and Report any exceedances of mission levels to the EPA.
7	6	Nuisance Management	Ensure any nuisances on site are eliminate or controlled effectively.
8		Housekeeping	Ensure housekeeping is kept to the required standard of an EPA Licensed Facility.
9		Communication	Upgrade company website during 2012 and include as much information about recycling etc. as possible.
10		Maintenance	Ensure weighbridge is maintained to achieve accurate weight recording.

7.2 Environmental Management Programme – report for previous year (2011)

Objectives and Targets & means by which they may be achieved	Responsibility	Completion Targets	Status
Resource Management - Continually review and update in line with any changes. Continue to monitor and record water usage on a quarterly basis. Continue to improve the use of raw materials.	Facility Manager Site Manager	Ongoing	We have introduced our Brown Bin collection to reduce the tonnage of MMW going to landfill. Water usage was monitored and recorded quarterly.
Recycling & Waste Management - Recycle 30% of all waste received in 2011. Review Recycling & Disposal tonnages on a monthly basis, and identify methods to increase rates, if possible.	Facility Manager Site Manager	Ongoing	We achieved our projected target to recycle 30% of all waste received in 2011. On reviewing our recycling & disposal rates we identify we need to increase our biodegradable food waste: we are working with our customers and local authorities to identify methods to increase our rates.
Firewater Retention Management - Conclusion of assessment to determine if the activity should have firewater retention.	Facility Manager Site Manager	Q4-2011	The site activity does not require firewater retention.
Environmental Management System - Review current EMS system and maintain as necessary to ensure ongoing compliance with the site Waste Licence. Ensuring all departments' processes and procedures are included in the company EMS system, and it is updated as necessary with any changes to work practises.	Facility Manager	Ongoing	The Environmental Management System is reviewed throughout the year to ensure ongoing compliance with the site. A procedure for the Residual Management of the site was implemented in 2011.
Health & Safety - Review all staff training records regularly to identify training requirements. Identify any training requirements and liaise with the Health & Safety Manager to organize training where needed.	Health & Safety Manager Facility Manager Site Manager	Q4-2011	Staff training records were reviewed and the following training took place in 2011. <ul style="list-style-type: none"> · Safe Pass · Articulated Shunter & Trailer · Fire Drill · Manual Handling
Emissions Monitoring - Maintain Emissions monitoring programme. Review monitoring reports record and report to the agency in accordantly with Schedule E.	Facility Manager	Q4-2011	All emission reports have been submitted to the agency as per Schedule E; all emissions were within the licence limits in 2011.
Nuisance Management - Ensure any potential nuisances on site are controlled. Review all documentation from nuisance inspections and weekly facility checks to ensure that all nuisances are controlled effectively.	Facility Manager	Ongoing	Nuisance Management carried out in 2011 <ul style="list-style-type: none"> · Weekly Facility Inspection · ECOLAB Pest Control
Litter Control - Ensure all loose litter or other waste is removed at the end of each working day. Pick up loose litter on the ground remove any waste litter place on or in the vicinity of the facility to the sorting shed for processing.	Facility Manager Site Manager	Ongoing	All loose litter was removed before the end of each working day.
Infrastructure & Operation - Test bund, tank and container integrity. Engage a consultant to carry out the bund tank and container integrity test.	Facility Manager	Immediate	Testing of bunds tanks and container integrity did not take place in 2011. We have received a quotation from Dyn-rod; once the price has been agreed the work will be carried out.
Cost saving - Work towards maximising cost saving in all areas due to current economic climate. Carry out regular checks of expenditure in production and administration and review on a quarterly basis.	Management Team / All Staff	Ongoing	All departments worked together to maximise cost.

Environmental Monitoring – Carry out a tender annually to ensure monitoring is carried out by a combination of the best qualified and most cost effective contractor.	Facility Manager	Q4-2011	Tender for monitoring contracts were sent out.
Collection Activities – Ensure material being collected and routes being used are providing the site with the best possible segregation of material to make management on site simpler.	Site Manager	Ongoing	The collection activities are an ongoing project to continually improve the management of waste.
Communication – Continue to develop the website via customer feedback to ensure the best possible service to customer is provided and that this tool is utilised to its full potential.	Management Team / All Staff	Ongoing	The website via customer feedback will be an ongoing communication tool.
IT System – Continually work to improve IT set-up to improve our ability to access and report on data, link into our sister plants in Galway / Roscommon to make communications easier and keep our systems modern and up to date.	Management Team / All Staff	Ongoing	Work is in progress to create an internal Database System unique to Barna Waste.
Housekeeping - Clear the site of all redundant materials.	Facility Manager Site Manager	Q4-2011	Redundant materials removed off site.

7.3 Environmental Management Programme – proposal for forthcoming year (2012)

Objectives and Targets	Responsibility	Completion Targets	Status
Recycling & Waste Management – Recycle 31% of all waste received in 2012. Review Recycling & Disposal tonnage on a monthly basis, and identify methods to increase rates, if possible.	Facility Manager Site Manager	Ongoing	
Environmental Management System – Review current EMS ensure all departments process and procedures are included in the company EMS, and that it is updated as necessary with any changes to work practices.	Facility Manager	Ongoing	
Training – Review all staff training records regularly to identify training requirements. Liaise with the Health & Safety Manager to organize training where needed. Investigate the possibility of getting a back-up Facility Manager put through the FAS Waste Management Course.	Facility Manager Health & Safety Manager Site Manager	Ongoing	
Health & Safety – Carry out a full site review of H&S procedures and implement improvements to ensure HSE inspections which are to be carried out during 2012 are passed.	Facility Manager Health & Safety Manager Site Manager	Ongoing	
Infrastructure & Operation – Have the integrity and water tightness of all bunding structures tested. Continue to review and improve the structure of our domestic routes to make them efficient / economical. Work closely with Sister sites to identify local markets for recyclable materials to reduce our carbon footprint and develop a portfolio of possible outlets for all our materials.	Managing Director Facility Manager Site Manager	Immediate	
Emission Monitoring – Review monitoring reports records and report to the Agency in accordance with Schedule E. Ensure emission control measures are maintained to the highest possible standards throughout the year to ensure compliance with emission limits.	Facility Manager Site Manager	Ongoing	
Nuisance Management – Review monitoring reports accordingly and report to the Agency in accordance with Schedule E. Continue to operate and control the site ensuring any potential nuisances are noted, and corrective action is initiated.	Facility Manager Site Manager	Ongoing	
Housekeeping – Ensure housekeeping is kept to the standard of an EPA Licensed Facility.	Facility Manager Site Manager	Ongoing	
Communication – Work closely with customers and local authorize to ensure our website and leaflets include as much information about recycling as possible.	Facility Manager Site Manager	Ongoing	
Maintenance – Review service and calibration reports ensure work is carried out as instructed by the engineer.	Facility Manager Site Manager	Ongoing	

8.0 Environmental Incidents & Complaints

There was no environmental incident recorded by Joe Mc Loughlin Waste Disposal Ltd. at the site in 2011.

9.0 Pollution Emission Register – Report for Previous year

Our facility Pollution Emission Main Economic Activity is Waste Treatment and Disposal. Our PRTR Class Activity Number: - 50.1, Activity Name: - General NACE Code:-3821. There was no Environmental Pollution Emission incidents recorded by Joe Mc Loughlin Waste Disposal Ltd. at the site in 2010. A copy of the Pollution Worksheet is attached in Appendix 7.

10.0 Pollution Emission Register – Report for Current year

Maintain Pollution Emissions Activity and report any exceedances, incident or complaints to the EPA.

11.0. Other Information

11.1. Tank & Pipeline Testing & Inspection Report

The integrity and water tightness of all the bunding structures and their resistance to penetration by water or other materials stored within their bunds are required to be tested we have sort the market for companies to carry out this work and have engage with a company who have given us a quotation once the price has been agreed the work will be carried out.

11.2. Energy Efficiency Audit Report Summary

An Energy Audit was carried out in 2007 by Environmental Efficiency Consulting Engineers. All recommendations were implemented in 2007.

11.3. Efficiency of use of Raw Materials

We have instigated our Biodegradable Waste Collection to Domestic customers, which has reduced the generation of waste going to landfill, and increased the generation of waste for recycling.

11.4. Water & Trade Effluent Discharge – Progress made/Proposals

Trade effluent is removed from the facility when required and transferred to Drumshanbo Wastewater treatment plant under the agreement of the EPA and Leitrim County Council. Samples of trade effluent are collected and sent for analysis prior to collection of the waste water.

11.5. Financial Provision

Barna Waste t/a Joe Mc Loughlin Waste Disposal Ltd. has Public and Employee liability insurance in place. The Limit of indemnity of this insurance is €6.5 & €13 million respectively. This provides for the cost of cleaning up of any Environmental Pollution in the event of an incident Taking place at the site.

11.6. Management & Staffing Structure

The facility is managed by Simon Rooney and Facility Manager is Ann Clarke. Simon Rooney has worked in the waste business for over nine years. The Facility Manager completed the FAS Waste Management Course in 2007.

11.7. Programme for Public Information

A Communications Programme (Procedure No. P6) has been prepared and details when and how members of the public can obtain information in relation to the facility. A copy of this procedure is attached in Appendix 4.

11.8. Statement of measures in relation to prevention of Environmental Damage & Remedial Action.

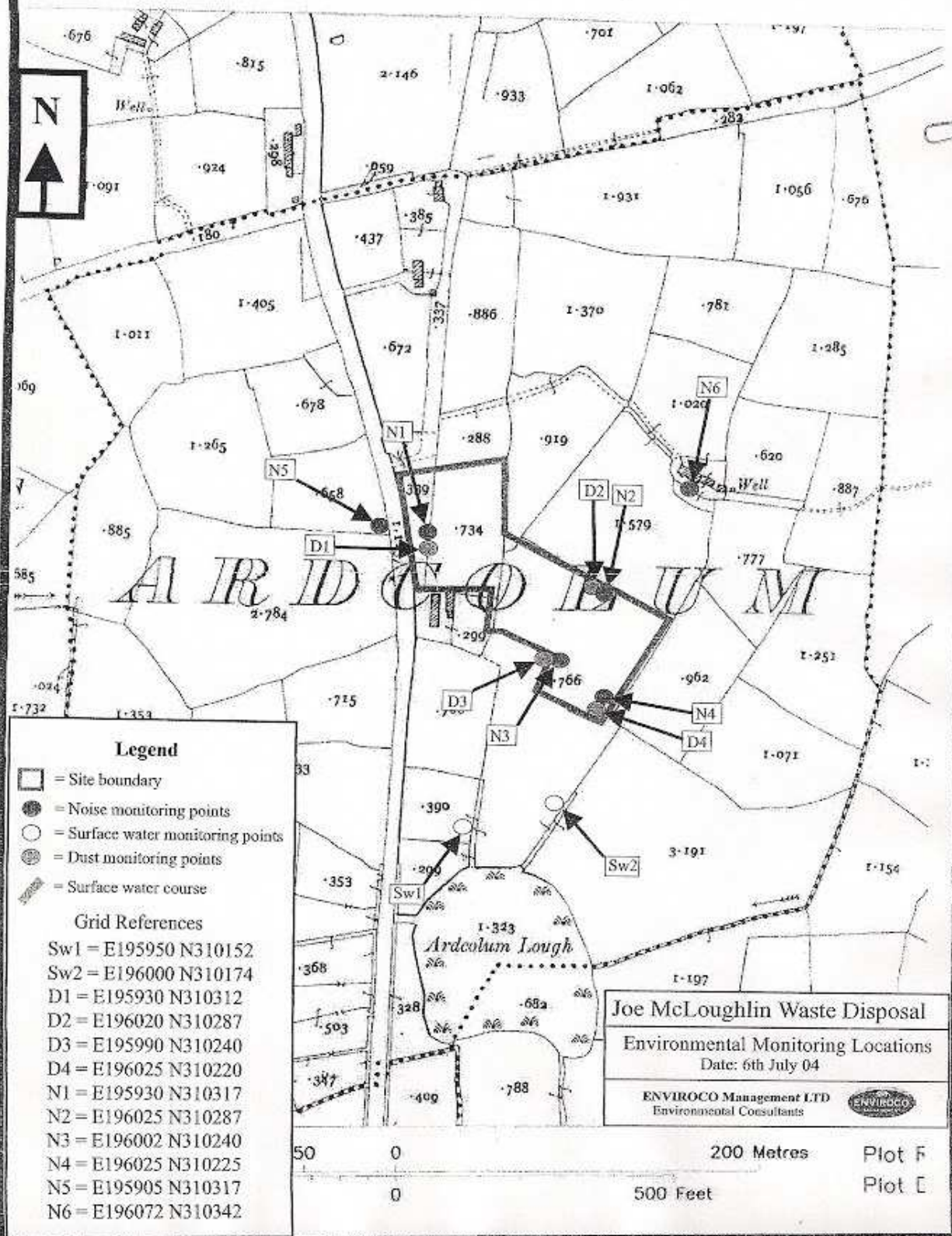
All activities carried out by Barna Waste t/a Joe McLoughlin Waste Disposal Ltd. is undertaken in a manner so as not to cause Environmental Pollution. Specific measures include:

- Monitoring of emissions.
- Weekly inspections of facility.
- Control of waste contractors.
- Removal of wind blow litter.
- Spraying with water to remove Dust nuisances.
- Processing of waste indoors only, to prevent, litter, dust, odour and noise nuisances.
- Testing and transfer of trade effluent (to a waste water treatment plant) in a timely fashion to prevent overflow of trade effluent tank, etc.

Appendix 1

Location of Monitoring Points

Map J.1.1 Environmental Monitoring locations at the Joe McLoughlin Waste Disposal Site



Appendix 2

Dust Monitoring Results

Dust Monitoring Report 2011

Joe Mc Loughlin Waste Disposal Ltd.

Waste Licence no. W0216-01

Introduction

Dust monitoring is required in accordance with waste licence no W0216-01. Dust Monitoring is carried out at 4 locations, around the facility (D1-D4).

- D1 – Entrance to site
- D2 – Located next to waste storage shed above a hedgerow
- D3 – Located next to waste storage shed and truck wash facility
- D4 – Located at the back of waste storage shed and truck wash facility

Dust Monitoring

Dust monitoring is required 2 times per year, between May – September. Dust gauges are placed at each monitoring point to collect Dust for 30 days.

The Dust gauges are analysis for Total Dust Deposition (mg/m²/day).

Methodology

Dust gauges are installed at each location and left for a period of 30 days, after which time, the containers are collected by Complete Laboratory Solutions and taken to their laboratories for analysis.

Results

The results from Dust samples are presented in table 1 below.

Table 1: Total Dust Deposition (mg/m²/day)

Monitoring Point	Licence Limit (mg/m²/day) ELV	Round 1 July - August 2011 (mg/m²/day)	Round 2 August – September 2011 (mg/m²/day)
D1	350	274	152
D2	350	74	107
D3	350	115	134
D4	350	180	143

Appendix 3

Noise Monitoring Results



Noise Monitoring- Barna Waste-Leitrim

13th October 2011

Report for:

Mr Campbell Finnie
Barna Waste
Headford Road
Carrowbrowne
Galway

Main Contributor:
Raymond Murphy
BSc MIEnvSc

Emerald Environmental Services

Unit D1
M4 Business Park
Celbridge
Co Kildare

Tel: 00353 1 6275656

info@emeraldenvironmental.ie

www.emeraldenvironmental.ie

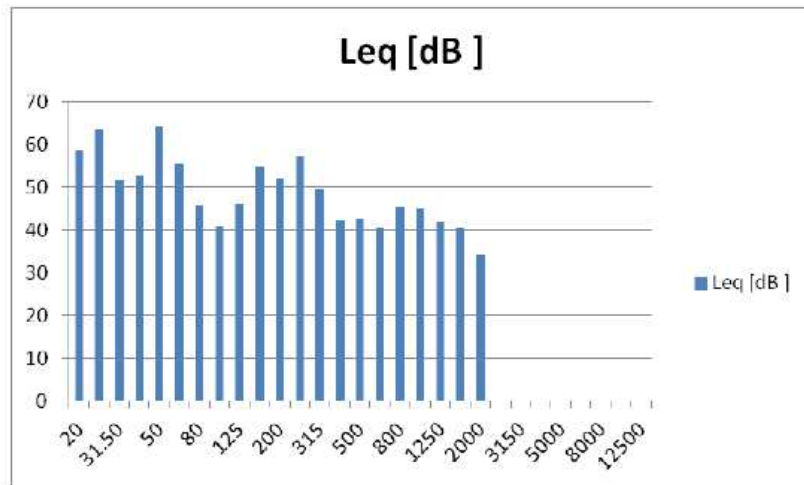
3. Results

The measurements made are presented in the following tables:

3.1 Day-time

NM location	Time	Location	13 th October 2011	13 th October 2011	13 th October 2011
			LA _{eq} (30)dB(A)	LA ₉₀ (30)dB(A)	LA ₁₀ (30)dB(A)
N1	13.25pm	Inside Main Gate	63.6	45.1	67.5
N2	14.22pm	LHS of site	63.8	64.5	54.0
N3	15.04pm	RHS of site	66.3	42.4	69.8
N4	15.55pm	Rear of site	54.9	59.5	44.5
N5	16.28pm	House across road	65.8	66.0	43.5
N7	17.11pm	1 st House to North	46.4	49.0	37.5
N6	17.51pm	2 nd House to North	42.4	45.5	34.5
N8	18.25pm	House to South	46.0	50.5	31.5

N1-Frequency Analysis



Appendix 4
Additional Information

Barna Waste T/A Joe Mc Loughlin Waste Disposal Ltd. EPA Waste Licence W0216-01			
Procedure no.	P6	Description	Communications Programme
Issued by:	AC	Date	28/10/09

1.0 Scope

Provides for public access to Environmental Information at the facility.

2.0 Responsibility

The Facility Manager is responsible for implementing this procedure

3.0 References

4.0 PROCEDURE

- 4.1. Condition 2.2.2.7 of Waste Licence W0216-01 requires the implementation of a communications programme to ensure that members of the public can obtain information at the facility, at all reasonable times, concerning the environmental performance of the facility.
- 4.2. Barna Waste T/A Joe McLoughlins Waste Disposal Ltd. will provide public access to the of following documentation on site:
 - Waste Licence no. W0216-01
 - Annual Environmental Report, for the previous year.
- 4.3. Opening hours for the inspection of these documents on site, is between 9am and 4pm, Monday to Friday
- 4.4. Visits to the site, for the purpose of inspection of the above documentation should be arranged in advance by ringing the Site at 071 9641103
- 4.5. Records of any environmental complaints made by the public in relation to McLoughlin's Facility shall be retained on site, and any such complaints responded to in accordance with P4 Environmental Complaints Procedure.
- 4.6. In addition, members of the public can access environmental information in relation to the Facility by visiting the EPA's Regional Inspectorate Office, John Moore Road, Castlebar, Co. Mayo, and checking the Public file. Visits must be arranged in advance by contacting the EPA at 094 9021588.

Appendix 5

Fire Hydrant & Water Flow Reading

Barna Waste T/A Joe Mcloughlin Waste Disposal Ltd. Waste Licence W0216-01			
Form no.	8	Description	Fire Hydrant Quarterly Flow Reading Form

Fire Hydrant Flow Reading

Quarter 1 2011	Flow Reading	Details/Action Required
Date: 31.03.11	000791	N/A
Quarter 2 2011	Flow Reading	Details/Action Required
Date: 30.06.11	000810	N/A
Quarter 3 2011	Flow Reading	Details/Action Required
Date: 30.09.11	000815	N/A
Quarter 4 2011	Flow Reading	Details/Action Required
Date: 30.12.11	000818	N/A

Barna Waste T/A Joe Mc loughlin Waste Disposal Ltd. Waste Licence W0216-01		
Form no.	9	Description
		Water Meter Flow Reading

Water Meter Flow Reading

Quarter 1 2011	Flow Reading	Details/Action Required
Date: 31.03.11	zero	No flow reading for quarter 1, the frost damaged the meter and it was sent away for repair, the meter was returned the 1st of April it was connected up again at zero flow reading.
Quarter 2 2011	Flow Reading	Details/Action Required
Date: 30.06.11	000762	N/A
Quarter 3 2011	Flow Reading	Details/Action Required
Date: 30.09.11	001140	N/A
Quarter 4 2011	Flow Reading	Details/Action Required
Date: 30.12.11	001452	N/A

Appendix 6

PRTR Emission Data Information



[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.13

REFERENCE YEAR	2011
-----------------------	------

1. FACILITY IDENTIFICATION

Parent Company Name	Barna Waste
Facility Name	Barna Waste
PRTR Identification Number	W0216
Licence Number	W0216-01

Waste or IPPC Classes of Activity

No.	class_name
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	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.
4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.13	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.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Ardcolum
Address 2	Drumshanbo
Address 3	Co Leitrim
Address 4	
	Leitrim
Country	Ireland
Coordinates of Location	-8.06202 54.0417
River Basin District	IEGBNISH
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	
AER Returns Contact Email Address	
AER Returns Contact Position	
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0

Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
50.1	General

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

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

PRINT THIS SHEET
HELP
CREATE AER XML RETURN & UPLOAD

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0216 | Facility Name : Barna Waste | Filename : W0216_2011 PRTR.xls | Return Year : 2011 |

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment
						M/C/E	Method Used	
Within the Country	20 03 01	No	845.0	mixed municipal waste	D10	C	Weighed	Offsite in Ireland
Within the Country	20 03 01	No	1959.0	mixed municipal waste	D1	C	Weighed	Offsite in Ireland
Within the Country	20 03 01	No	789.0	mixed municipal waste	D1	C	Weighed	Offsite in Ireland
Within the Country	20 03 01	No	4722.0	mixed municipal waste	D1	C	Weighed	Offsite in Ireland
Within the Country	20 01 99	No	1637.0	other fractions not otherwise specified	R3	C	Weighed	Offsite in Ireland
Within the Country	17 02 01	No	198.0	wood	R12	C	Weighed	Offsite in Ireland
Within the Country	15 01 01	No	224.0	paper and cardboard packaging	R3	C	Weighed	Offsite in Ireland
Within the Country	20 01 01	No	0.62	paper and cardboard	R3	C	Weighed	Offsite in Ireland
Within the Country	15 01 02	No	19.0	plastic packaging	R3	C	Weighed	Offsite in Ireland

Within the Country	15 01 02	No	8.0	plastic packaging	R3	C	Weighed	Offsite in Ireland
Within the Country	15 01 07	No	172.0	glass packaging mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17	R5	C	Weighed	Offsite in Ireland
Within the Country	17 01 07	No	382.0	01 06 soil and stones other than those mentioned in 17	R5	C	Weighed	Offsite in Ireland
Within the Country	17 05 04	No	48.0	05 03 soil and stones other than those mentioned in 17	R5	C	Weighed	Offsite in Ireland
Within the Country	17 05 04	No	68.0	05 03 soil and stones other than those mentioned in 17	R5	C	Weighed	Offsite in Ireland
Within the Country	17 05 04	No	99.0	05 03 soil and stones other than those mentioned in 17	R5	C	Weighed	Offsite in Ireland
Within the Country	20 02 01	No	0.56	biodegradable waste	R3	C	Weighed	Offsite in Ireland
Within the Country	20 01 40	No	19.0	metals	R4	C	Weighed	Offsite in Ireland
Within the Country	20 01 40	No	110.0	metals	R4	C	Weighed	Offsite in Ireland
Within the Country	20 01 10	No	0.32	clothes	R5	C	Weighed	Offsite in Ireland
Within the Country	16 01 03	No	17.0	end-of-life tyres	R5	C	Weighed	Offsite in Ireland
Within the Country	20 01 08	No	441.0	biodegradable kitchen and canteen waste	R3	C	Weighed	Offsite in Ireland

Within the Country	17 08 02	No	42.0	gypsum-based construction materials other than those mentioned in 17 08 01	R3	C	Weighed	Offsite in Ireland
--------------------	----------	----	------	--	----	---	---------	--------------------