

Kerry County Council



Waste Licence Ref No. W0225-01

REPORT TITLE

**Dingle Civic Amenity Site
Flemingstown, Lispole
An Daingean
Co. Kerry**

Annual Environmental Report

Reporting Period:

January 2010 – December 2010

*Prepared By:
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Co. Kerry.*

June 2011

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1.0 Introduction

Kerry County Council operates a civic amenity facility located in the townland of Flemingstown, Lispole adjacent to the N86 Dingle to Tralee road and approximately 5 km east of the town of Dingle, Co. Kerry. The site is accessed via the county road L-8052.

The principal activities at the facility include the recycling or reclamation of inorganic materials including mixed dry recyclables, C & D rubble, metals, glass, steel and aluminium cans, car batteries, dry cell batteries, fluorescent tubes, domestic hazardous waste, cardboard, plastic bottles, textiles, wood, WEEE and newspapers. Small quantities of organic waste (food and garden) are also collected.

Mixed municipal waste is also accepted on site and compacted into 30 cubic metre closed containers for subsequent transfer and disposal at North Kerry Landfill in Muingnaminane, Tralee.

This Annual Environment Report is prepared in accordance with Condition 11.8 and Schedule F of Waste Licence W0225-01 issued by the Environmental Protection Agency (EPA).

2.0 Reporting Period

The reporting period for this Annual Environmental Report is 1st January 2010 – 31st December 2010.

3.0 Waste Activities Carried out at the Facility

Waste disposal activities carried out at Dingle Civic Amenity Site are in accordance with Part 1 of Waste Licence W0225-01 which outlines the waste disposal activities licensed in accordance with the Third Schedule of the Waste Management Acts 1996 to 2005.

Licensed activities include:

- Class 12** Repackaging prior to submission to any activity referred to in a preceding paragraph of this 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.

Waste recovery activities carried out at Dingle Civic Amenity Site are in accordance with Part 1 of Waste Licence W0225-01 which outlines the waste recovery activities licensed in accordance with the Fourth Schedule of the Waste Management Acts 1996 to 2005. Licensed activities include:

- Class 2** Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
- Class 3** Recycling or reclamation of metals and metal compounds.
- Class 4** Recycling or reclamation of other inorganic materials.
- 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.

4.0 Quantity and Composition of Waste Received, Disposed and Recovered: 1st Jan – 31st Dec 2010

Waste collected at Dingle Civic Amenity Site for disposal during the reporting year (2010) decreased compared the previous year (2009). This was primarily due to the downturn in the economy as well as the pricing structure at the facility. The quantity of construction and demolition waste delivered to the facility has significantly reduced.

The weight of the waste accepted into Dingle Civic Amenity Site for disposal for the reporting period was 230.44 Tonnes. This comprises of the following breakdown:

<i>Waste for Disposal</i>	<i>Tonnes</i>	
	<i>2009</i>	<i>2010</i>
Commercial & Industrial	0.04	24.07
Road Sweepings & Graveyard Waste	0	0.46
Flytipping	8.4	7.54
Public Domestic	236.72	198.37
Total for Disposal	245.16	230.44

Table 1 Waste Stream Break down for reporting Period.

Overall the quantities of waste sent for recycling increased slightly in comparison to 2009, particularly for metals, glass, plastic bottles, dry recyclables, cardboard and paper. Decreases were noted for WEEE, wood, C & D waste, flat glass, green waste, batteries and textiles.

Waste sent for recycling during the reporting period compared with previous years is outlined in Table 2 below.

Waste for Recycling & Recovery	Tonnages 2009	Tonnages 2010
Metals	24.72	40.24
Glass	12.2	25.02
Aluminium	0.25	0.29
Batteries	1.9	0
Newspapers	11.4	21.50
Cardboard	12.94	16.32
Fluorescent Tubes	0	0
Domestic Hazardous Waste	0	0.32
Plastic Bottles	1.1	5.38
Waste Engine Oil	0.5	0
WEEE	46.992	39.08
Cooking Oil	0.15	0.34
Dry Recyclables	20.7 ¹	26.96 ¹
Organics (food)	0	0
Textiles	5.9	4.36
Wood	41.5	23.38
Flat Glass	4.54	0
Green Waste	8.0	4.3
C & D rubble	14.2	5.84
Total for Recycling/Recovery	206.99	213.33

¹ Dry recyclables collected in eco sense bags

Table 2 Waste collected on site and recovered/recycled off site during the reporting period.

Appendix I contains a breakdown of waste by classification collected on site and recovered/recycled off site during the reporting period.

5 Summary of Procedures Developed by the Licensee

The following procedures were developed during the reporting period:

- Revised Waste Acceptance Procedures – Weight of waste leaving Facility compared to weight of waste arriving in Landfill
- Revised Operational Procedures for Facility Manager
- Revised Health & Safety Procedures

6 Review of Nuisance Controls

Regular inspections of the facility and its environs are carried out by the facility manager. During 2010 issues arose with mice in the storage shed which were solved by the use of appropriate bait. Occasional issues also arose with litter on the approach roads which were cleaned up by the facility manager.

The nuisance controls which are currently in place are appropriate for the operation of this facility.

7 Emissions from the Facility

a) Foul Water Emissions

A Wastewater Treatment Unit and reed bed is installed at the facility to treat all foul waters from the site. The Wastewater Treatment Unit was serviced during 2010 when the air blower was replaced. Foul water is treated in the Wastewater Treatment Unit and discharged to the surface water drain via an oil interceptor and reed bed.

The foul water emission results are attached in Appendix II. The results show an effluent of acceptable quality during the reporting period.

b) Surface Water Emissions

Surface water runoff from the site roads and uncontaminated surfaces discharges to the surface water drain via an oil interceptor and reed bed. Visual inspections indicated no issues with surface water emissions.

The surface water monitoring results are attached in Appendix II. No significant impact was noted to date from these results.

c) Waste from Silt Traps and Interceptors

No silt/sludge or wastewater was removed from the oil interceptor or foul waste water treatment unit during the reporting period.

8.0 Resource Consumption Summary

The following is the energy consumption for Dingle Civic Amenity Site for the reporting period.

8.1 Diesel

The diesel usage for Dingle Civic Amenity Site for the reporting period 2010 was 170 litres. The primary usage of diesel is for the forklift and roadsweeper on site.

8.2 Electricity

The electricity usage for the facility during the reporting period was 12,632 kilowatt hours.

Power is required for the office computer and lighting, weighbridge, waste compactors, storage heating, cardboard baler, wastewater treatment unit, CCTV cameras and public lighting on the site.

8.3 Water

Water supply to the site is via a connection to the mains water supply. Water usage for the facility during the reporting period was 188,000 litres. Some of this was due to a leak in the water mains which was rectified in early 2010. Water is mainly used on site for power washing yards, office toilets and sinks, public toilets, washing compactor area and washing of trucks and bins when required.

No surface water or ground water is abstracted.

9 Reported Incidents and Complaints

No incidences or complaints were reported in relation to the operation of the facility during the reporting period.

10 Schedule of Environmental Objectives and Targets for the Forthcoming Year

<i>Target Area</i>	<i>Objective</i>	<i>Works Required</i>
<i>Surface Water Emissions</i>	Keep Surface Water Emissions within agreed limits	Regular inspection of surface water drains. Regular monitoring of results from Surface Water Monitoring Points.
<i>Litter – On public roads to facility</i>	Reduction in the number of bags of waste/litter lost from trailers on the way to the facility	Regular inspections and clean up of approach roads. Quick response to clean up any reported waste on the approach roads to the facility
<i>Energy Resources</i>	Reduce consumption of electricity used at facility	Change electricity meter to avail of night rate tariffs. Monitoring of Energy Performance Indicators (EPIs)
<i>Cardboard and Textiles</i>	Promote & increase collection of cardboard and textiles	Increased promotion and marketing of service

11 Report on Progress towards achievement of the 2009 Environmental Objectives and Targets

<i>Objective</i>	<i>Target</i>	<i>Progress</i>
<i>Encourage public to recycle their waste</i>	Increase waste recycled at site by 20%. Provide information leaflets on home composting. Promote facility in local community	Recycling levels increased only by 3% mainly due to weak economic environment. Information leaflets provided. KCC waste & recycling services advertised in radio and local advertiser. Leaflet drops in local area.
<i>Encourage more recycling</i>	Promotion county wide and locally	Services advertised in radio and local advertisers. Leaflet drops in local area.
<i>Initiate more intensive advertising to increase footfall to CA site</i>	Ongoing	Ongoing

12 Noise Monitoring Report Summary

Noise monitoring was carried out at the facility by Euro Environmental Services on the 26th January, 2010. The noise monitoring report is attached in Appendix III. The emission limits outlined in Schedule B of the waste licence were exceeded at three monitoring points for both night and day time surveys due to traffic movements in close proximity to these locations.

During 2010 no complaints were received in relation to noise at the facility.

13 Ambient Monitoring Summary

Dust monitoring was carried out in July 2010 and the results are attached in Appendix IV. The dust monitoring results are within the emission limits outlined in Schedule B of the waste licence and no complaints were received in relation to dust at the facility during 2010.

14 Energy Efficiency Audit Report Summary

An energy efficiency audit was carried out for Dingle Civic Amenity Site by Kerry County Councils Energy Office and the report is attached in Appendix V.

The main recommendations for energy savings are:

- 1) Change electricity meter to avail of night rate tariffs for storage heating purposes and
- 2) Continue monitoring of Energy Performance Indicator (EPI) trend and daily consumption trend.

15 Development/Infrastructural Works Summary

CCTV cameras were installed in December 2010.

16 Proposed Development/Infrastructural Works for coming Year

No development works are proposed at the facility for 2011.

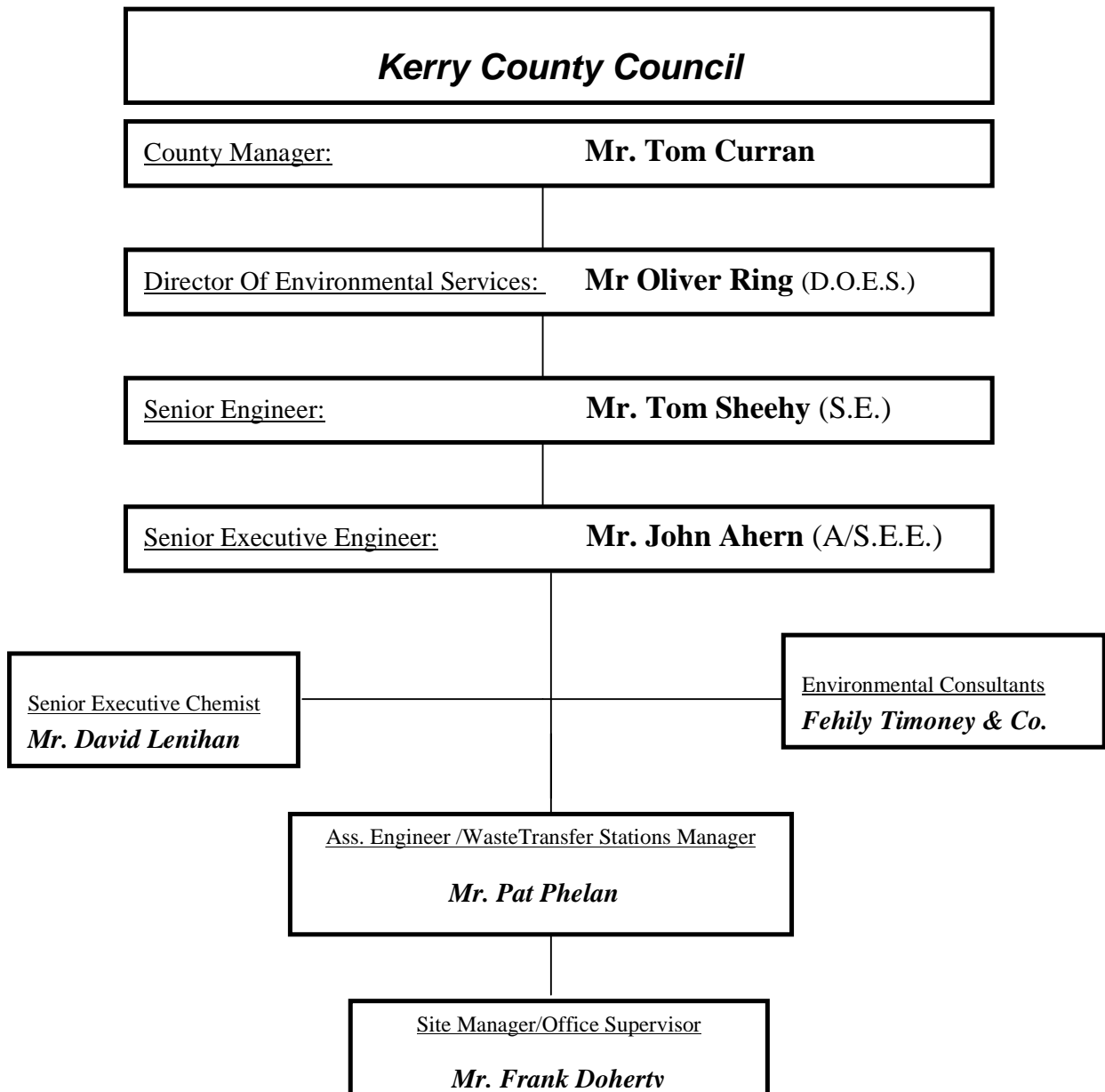
17 Report on Financial Provision

a) Statement of Costs for Waste Operations at Facility

Waste 2010		
Accelem	Accelem(T)	Total Charge €
60030	Wages	30,448.05
60040	Salaries	10,379.40
60100	ER PRSI	4,923.03
60200	Overtime	4,520.39
60300	Arrears	-22.24
60400	Sick Pay	389.40
60500	Annual Leave	3,914.10
60510	Bank Holiday Leave	505.88
60600	Travel/Subsistence	3,441.21
60700	Eating on site allowance	34.61
61990	Other Allowances	39.70
65500	Minor Contracts- Trade Services & other works	22,002.96
68500	Non-Capital Equip Purchase - Other	1,723.04
69000	Hire (Ext) - Plant/Transport/Machinery & Equipment	467.77
69200	Repairs & Maint - Plant	0.00
69250	Repairs & Maint -Computer Equip	0.00
69400	Transfers from Machinery Yard	3,466.00
70000	Materials	347.55
70990	Issues from Stores	799.23
70991	Returns to Stores	-99.48
71000	Insurance	151.46
73400	Staff Travelling & Subsistence Expenses	4,600.68
76000	Communication Expenses	730.31
77100	Courier	32.00
77200	Security - Property	1,298.45
78000	Training	0.00
79900	Consultancy/Professional Fees and Expenses	-2.48
80000	Advertising	1,703.47
81000	Printing & Office Consumables	795.06
82100	Statutory Contributions to Other Bodies	5,610.72
85100	Rates & Other LA Charges	1,050.35
86000	Energy	1,716.39
99000	Miscellaneous Expenses	0.00
	Total	104,967.01

b) Statement of Costs for Recycling Operations at Facility

Recycling 2010		
Accelem	Accelem(T)	Total Charge €
60030	Wages	746.36
60040	Salaries	2,883.02
60100	ER PRSI	398.33
60300	Arrears	-7.41
60500	Annual Leave	519.20
60600	Travel/Subsistence	82.26
65500	Minor Contracts- Trade Services & other works	0.00
67500	Non-Capital Equip Purchase - Computers	0.00
68500	Non-Capital Equip Purchase - Other	0.00
69250	Repairs & Maint -Computer Equip	0.00
70000	Materials	0.00
70990	Issues from Stores	799.23
70991	Returns to Stores	-99.48
73400	Staff Travelling & Subsistence Expenses	0.00
76000	Communication Expenses	0.00
77200	Security - Property	0.00
78000	Training	0.00
79900	Consultancy/Professional Fees and Expenses	0.00
80000	Advertising	0.00
81000	Printing & Office Consumables	0.00
82100	Statutory Contributions to Other Bodies	0.00
85100	Rates & Other LA Charges	0.00
86000	Energy	0.00
99000	Miscellaneous Expenses	0.00
	Total	5,321.51

18 Management and Staffing Structure at Facility 2010

19 Programme of Public Information

The following files are available for inspection on site by members of the public:

- AER of previous reporting years
- All correspondence with the Agency
- Surface Water Monitoring Results
- Incident/Complaints Register
- Tonnage of waste accepted on site
- Characterisation of waste accepted on site
- Operational Procedure Manual
- Waste Acceptance Procedure
- Information on Recycling Initiatives e.g. leaflets.
- Environmental Management System.

Appendix I - Waste Collected at Dingle Civic Amenity Site and Recovered/Recycled offsite during reporting period

Material type	Suggested EWC Codes	Household Waste
organic waste (food and garden) Total	20 01 08; 20 02 01	4.30
<i>if segregated, provide specific information on food and garden waste</i>		
<i>food</i>	<i>20 01 08</i>	-
<i>garden</i>	<i>20 02 01</i>	<i>4.30</i>
mixed dry recyclables (eco-bags)	15 01 06; 20 03 01	26.96
cardboard, newspaper and other paper (Total)	15 01 01; 20 01 01	37.82
<i>if segregated, provide the breakdown of cardboard and paper in the rows below</i>		
<i>*cardboard packaging</i>	<i>15 01 01</i>	<i>16.32</i>
<i>cardboard non-packaging</i>	<i>20 01 01</i>	-
<i>paper packaging</i>	<i>15 01 01</i>	-
<i>paper non-packaging</i>	<i>20 01 01</i>	<i>21.50</i>
<i>*newspaper and magazines</i>	<i>20 01 01</i>	
glass (Total)	15 01 07; 20 01 02	9.32
<i>if segregated, provide the breakdown of glass in the next two rows</i>		
<i>glass packaging(bottles)</i>	<i>15 01 07</i>	<i>9.32</i>
<i>glass non-packaging(sheet)</i>	<i>20 01 02</i>	
metals (Total)	15 01 04; 20 01 40	25.30
<i>if segregated, provide the breakdown</i>		

<i>of metals in the next four rows</i>		
<i>aluminium cans (packaging)</i>	<i>15 01 04</i>	<i>0.29</i>
<i>steel cans (packaging)</i>	<i>15 01 04</i>	<i>0.78</i>
<i>other metal packaging</i>	<i>15 01 04</i>	<i>-</i>
<i>other metals (non-packaging)(scrap)</i>	<i>20 01 40</i>	<i>24.24</i>
plastic (Total)	15 01 02; 20 01 39	5.38
<i>if segregated, provide the breakdown of plastic waste in the next two rows</i>		
<i>plastic packaging(bottles)</i>	<i>15 01 02</i>	<i>5.38</i>
<i>plastic non-packaging</i>	<i>20 01 39</i>	<i>-</i>
textiles (Total)	15 01 09; 20 01 11	4.36
<i>if segregated, provide the breakdown of textiles in the next two rows</i>		
<i>textiles, packaging</i>	<i>15 01 09</i>	<i>-</i>
<i>textiles, non-packaging</i>	<i>20 01 11</i>	<i>4.36</i>
wood (Total)	15 01 03; 20 01 38; 20 01 37*	23.38
<i>if segregated, provide the breakdown of wood waste in the next four rows</i>		
<i>wood packaging</i>	<i>15 01 03</i>	<i>-</i>
<i>wood non-packaging</i>	<i>20 01 38</i>	<i>-</i>
<i>mixed, uncontaminated wood packaging and non-packaging</i>	<i>15 01 03; 20 01 38</i>	<i>23.38</i>
<i>wood, treated, hazardous</i>	<i>20 01 37*</i>	<i>-</i>
miscellaneous hazardous waste (Total)		0.66
<i>small batteries</i>	<i>20 01 34; 20 01 33*</i>	<i>-</i>

<i>lead acid batteries (Car Batteries)</i>	<i>16 06 01*</i>	-
<i>Ni-Cd batteries and Accumulators</i>	<i>16 06 02*</i>	
<i>waste mineral oils (lubrication, vehicle, machine etc.)</i>	<i>13 xx xx</i>	
<i>oil filters (vehicles)</i>		-
<i>oil containers (mineral oil) - plastic + metal</i>		-
<i>waste cooking or vegetable oils</i>	<i>20 01 25</i>	<i>0.34</i>
<i>aerosols</i>	<i>20 03 99</i>	-
<i>waste paint and varnish (including containers)</i>		<i>0.32</i>
WEEE (Total)	various	39.08
<i>if segregated, provide the breakdown of WEEE in the next five rows</i>		
<i>fridges and freezers</i>	<i>20 01 35*; 20 01 36; 16 02 11*; 16 02 14</i>	<i>4.50</i>
<i>white goods (electrical and electronic)</i>	<i>20 01 36; 16 02 14</i>	<i>13.51</i>
<i>televisions and PC monitors</i>	<i>20 01 35*; 16 02 13*;</i>	<i>8.49</i>
<i>ICT- Information and Communications Technology Equipment, e.g. Includes Computer Equipment</i>	<i>16 02 14</i>	<i>0.62</i>
<i>other electrical and electronic equipment, e.g. White Goods incl. Washing Machines, Dryers etc, TVs, PCs, Small Items incl. toasters Radios</i>	<i>20 01 36; 20 01 35*</i>	<i>11.96</i>
<i>Gas Cylinders</i>		
<i>C & D Rubble</i>		<i>5.84</i>
<i>fluorescent tubes and lighting</i>	<i>20 01 21*</i>	-
<i>Tyres</i>	<i>16 01 03</i>	
bulky waste (provide summary below of waste types) e.g. Furniture, Mattresses, Mixed Bulky Waste	20 03 07	-

Appendix II - Results of Foul and Surface Water Monitoring

Attn: Brian Lennon EE Waste Management Friday, 28 January 2011
Re: LABORATORY Results for An Daingean Transfer stations : 2010

Enclosed are results (2009 – date) of monitoring of designated Surface water points and discharge point samples as set out in EPA licence conditions for *AN DAINGEAN Transfer station* The latest results are for July – Dec 2010.

No significant impact was noted to date from four sets of samples taken at this site. Further samples are required for proper assessment

As can be seen from results of discharge point from Transfer station an effluent of acceptable quality is indicated.

David Lenihan MSc

Senior Executive Chemist

Landfill	Location	Sample Reference	Sample Date	Sample Time	Ammonium (NH ₄)	pH	BOD (O ₂)	Conductivity @ 20 oC	Chemical Oxygen Demand (O ₂)	Suspended Solids	Temperature	Oils/Fats & Grease	Odour
					mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	Degrees C	mg/l	Descriptive
Dingle	Leachate Sampling Point	2009/1298	05-Mar-09	14:35	0.02	9.4	1.2	166	17	8	7.6	< 2	nd
Dingle	Outlet of reed bed	2010/4718	12-Oct-10	12:05	0.26	6.9	2.3	1311	43	103	13.9		None

Table 1 Foul Water Monitoring Results

Landfill	Location	Eastings	Northings	Sample Reference	Sample Date	Sample Time	Ammonium (NH ₄)	pH	BOD (O ₂)	Conductivity @ 20 oC	Chemical Oxygen Demand (O ₂)	Chloride (Cl)	Dissolved Oxygen (O ₂)	Suspended Solids	Temperature
							mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C
Dingle	S2			2009/5147	01-Oct-09	15:10	0.26	7.7	1.1	364	< 10	34	8.5	42	15.8
Dingle	S2			2010/1740	22-Apr-10	12:55	0.04	6.8	1.2	319	29	33	6.9	24	11.8
Dingle	S3			2009/5148	01-Oct-09	15:20	0.46	8.1	1.5	284	33	23	8.8	58	15.4
Dingle	S3			2010/1741	22-Apr-10	12:45	2.66	6.4	4.8	814	42	37.5	9.1	43	14.6
Dingle	S3			2010/4716	12-Oct-10	11:40	0.09	7.7	11.7	411	348	29	8	813	14.8
Dingle	S4			2009/5149	01-Oct-09	15:35	0.14	8.1	2.4	386	42	33	2.4	16	13

Dingle	S4	2010/1742	22-Apr-10	13:00	0.04	6.9	1.7	189	52	30	9.8	28	13.3
Dingle	S5	2009/5150	01-Oct-09	16:00	0.3	6.8	3.1	354	33	34	2.8	12	13
Dingle	S5	2010/1743	22-Apr-10	13:40	0.17	6.8	1.1	299	27	32.5	7.1	4	10.5
Dingle	S5	2010/4717	12-Oct-10	12:30	0.18	6.8	3.2	320	118	27	7	160	13.1
Dingle	Stream sample d/s of pipe	2009/1301	05-Mar-09	14:52	0.03	7.5	1.1	196	25	29	10.6	4	8.4
Dingle	Stream sample u/s of pipe	2009/1300	05-Mar-09	14:45	< 0.02	7	1.2	141	42	31	10.4	< 1	7.1
Dingle	S1	2009/5146	01-Oct-09	16:05	0.22	8.9	< 1	302	11	33	8.2	4	15
Dingle	S2	2010/1739	22-Apr-10	13:35	0.06	7.5	< 1	356	15	34.5	9.4	4	12.6
Dingle	S3	2010/4715	12-Oct-10	12:20	0.11	8.5	< 1	341	14	38.5	8	4	14.7

Table 2 Surface Water Monitoring Results

Appendix III - Noise Monitoring Report

Kerry County Council Dingle Civic Amenity Centre Flemingstown, Lispolse, An Daingean, Kerry

Day Time Noise Survey

Report Date:
26th January 2010

EURO environmental services

Unit 35A Boyle Business Park, Drogheda, Co. Louth

Report No. 2680/M14

EURO environmental services

Kerry, Co. Co. – Dingle Civic Amenity Centre

1.0 Introduction

EURO environmental services were commissioned by Kerry County Council to carry out a day and night time noise survey at predetermined noise monitoring locations around the Lispolse Recycling Facility. This monitoring was to be carried out as required under Condition B4 of the current Waste Licence No. 225-1.

According to the licence activities on site shall not give rise to noise levels off site, at noise sensitive locations, which exceed the sound pressure limits of 55 dB(A) during the day and 45 dB(A) during the night measured over 30 minute periods.

The transfer station operates between 8.00 a.m. – 5.30 p.m. four days per week, 8.00 a.m. – 7.30 p.m. one day per week and 8.00 a.m. – 1.30 p.m. on Saturdays and the facility is to close on Sundays and Bank Holidays.

Noise is produced on site from activities such as HGV movements, waste container loading and unloading, recycling centre activities, and other day to day transfer station activities.

2.0 Duration and Measurements of Surveying

The daytime broadband noise survey was carried out between 14:10 and 16:30 on Tuesday 12th of January 2010. Night time broadband noise survey was carried out between 22:07 on Tuesday 12th of January 2010 and 0:23 on Wednesday 13th January 2010. The following measurements were carried out at each site:

- Daytime Broadband measurements $L(A)_{90}$, $L(A)_{10}$, $L(A)_{50}$, $L(A)_{10}$ and $L(A)_{90}$ over a 30 minute period of time.
- Daytime 1/3rd Octave measurements.
- Night time Broadband measurements $L(A)_{90}$, $L(A)_{10}$, $L(A)_{50}$, $L(A)_{10}$ and $L(A)_{90}$ over a 30 minute period of time.
- Night time 1/3rd Octave measurements.

3.0 Weather Conditions

Weather conditions were suitable for noise monitoring during the daytime broadband survey. It was overcast during the survey. Wind speeds were <5m/sec.

4.0 Location of Monitoring Points

4.1 N1

This point was located to the west of the Recycling Facility, beside the river. The noise meter was set on hard ground by the N86 road, at the gate of a neighbour's house 100 metres away from the Recycling Facility.

4.2 N2

N2 was located to the north of the Recycling Facility. The noise meter was set on hard ground by a neighbour's house. The Recycling Facility was not visible from this location.

4.3 N3

N3 was located to the east from the Recycling Facility. The noise meter was set on hard ground by a neighbour's house.

4.4 N4.

This monitoring point was located to the west of the Recycling Facility, beside the rear. The noise meter was set on grass ground in a residential estate 20 metres away from N86 road.

5.0 Sources of noise

The main source of noise during the survey was traffic on the N86 road. Due to the distance to the Recycling Facility the only audible noise was made by vehicles driving along roads. Other sources included surface water flowing and traffic movement on secondary roads.

6.0 Methodology

The noise survey was carried out in accordance with ISO 1996/1/2/3 - Acoustics - Description and Measurement of Environmental Noise.

Reference was also made with the European Communities (Protection of Workers (Exposure to Noise) Regulations, 1990 and BS 5228 Part1, Noise and vibration control on construction and open sites and guidance notes issued by the EPA on Environmental Noise Surveys.

7.0 Equipment

The monitoring equipment used was a Bruel & Kjaer Hand-held Analyser Type 2250, instrument No. 2157949 integrating sound pressure level meter, with selective 1:1 or 1:3 octave band measurements.

The meter was fixed to a tripod 1.3 meters above the ground level and the microphone was protected using a windshield. The microphone cartridge type was an MK224, Serial No. 990783 with open circuit sensitivity level of 45.4 mV per Pa.

7.1 Calibration

Calibration was carried out on site using an acoustic calibrator at 94dBA. The meter was calibrated before and after the monitoring round.

EURO environmental services Kerry Co. Co. – Dingle Civic Amenity Centre

8.0 Day Time Monitoring

Monitoring Point	Date / Time	Sampling Interval (Minutes)	L(A)eq	L(A)10	L(A)90	Comments
N1	12/01/2010 15:57	30	75	77	48	No noise audible from the Recycling Facility. Main source of noise was produced by continuous traffic movements on N86 road and water flowing in river.
N2	12/01/2010 14:10	30	49	46	41	No noise audible from the Recycling Facility. Main source of noise was produced by continuous traffic movements on N86 road, surface water flowing and a van passing by the monitoring location.
N3	12/01/2010 14:50	30	59	55	43	No noise audible from the Recycling Facility. Main source of noise was produced by continuous traffic movements on N86 road and secondary road.
N4	12/01/2010 15:24	30	83	67	48	No noise audible from the Recycling Facility. Main source of noise was produced by continuous traffic movements on N86 road and water flowing in the river.

Night time Monitoring

Monitoring Point	Date / Time	Sampling Interval (Minutes)	L(A)eq	L(A)10	L(A)90	Comments
N1	12/01/2010 23:53	30	48	43	41	No noise audible from the Recycling Facility. Main source of noise was produced by continuous traffic movements on N86 road and water flowing in the river.
N2	12/01/2010 22:45	30	38	38	36	No noise audible from the Recycling Facility. Main source of noise was produced by continuous traffic movements on N86 road, surface water flowing and a van passing by monitoring location.
N3	12/01/2010 22:07	30	49	46	38	No noise audible from the Recycling Facility. Main source of noise was produced by continuous traffic movements on N86 road and secondary road.
N4	12/01/2010 23:21	30	55	57	40	No noise audible from the Recycling Facility. Main source of noise was produced by continuous traffic movements on N86 road and water flowing in the river.

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EURO environmental services

Kerry Co. Co. – Dingle Civic Amenity Centre

9.0 Third Octave Noise Measurements

Third octave noise monitoring results are used to identify prominent tonal components in noise. A tonal component was detected at monitoring location N1 during the night time monitoring at 63Hz (57.0 dB). This tonal noise may be attributed to diesel engines of vehicles idling or in operation in the proximities of the monitoring location.


10.0 Interference

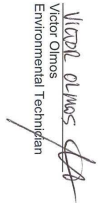
The main sources of interference during monitoring at the Recycling Facility included passing traffic on the roads adjacent to the civic amenity centre.

11.0 Conclusion

There were three monitoring points determined to exceed the emission limits outlined in the waste licence for both day and night time surveys (N1, N3 and N4). The exceedance of noise levels are attributed to traffic movements in close proximity to these monitoring locations.

26th January 2010

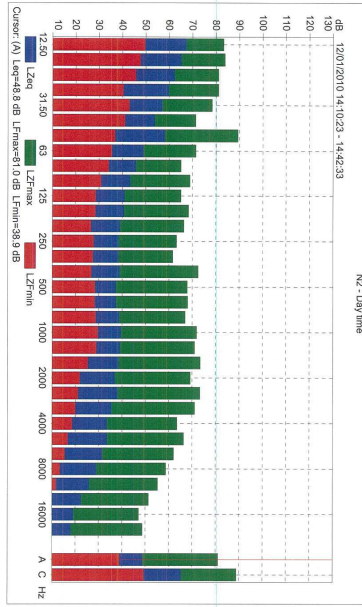

Aadil Khan
Environmental Technical Manager


Victor Olmos
Environmental Technician



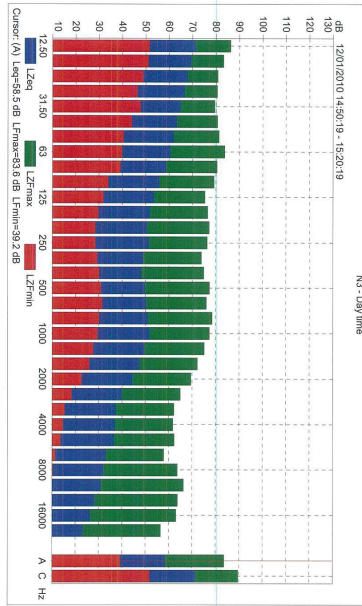
N2 - Day time

Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAFT10 [dB]	LAFT90 [dB]	LCpeak [dB]
14:10:23	14:42:33	0.00	81.0	38.9	48.8	45.8	41.1	99.9
Date		12/01/2010	12/01/2010					



N3 - Day time

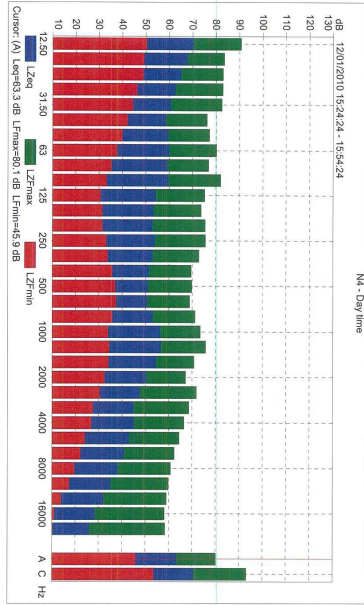
Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAFT10 [dB]	LAFT90 [dB]	LCpeak [dB]
14:50:19	15:20:19	0.00	83.6	39.2	58.5	54.7	42.8	99.7
Date		12/01/2010	12/01/2010					





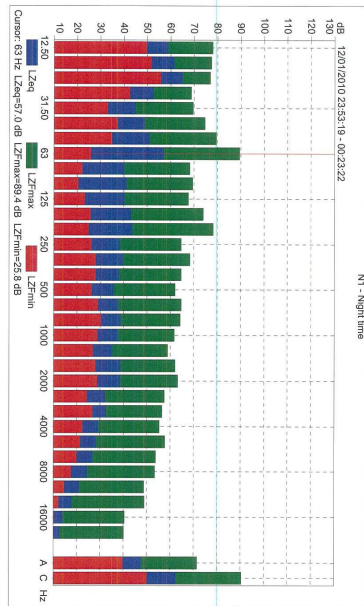
N4 - Day time

Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAFT0 [dB]	LAEP0 [dB]	LCpeak [dB]
15:24:24	15:54:24	0.00	80.1	45.9	63.3	67.2	48.1	102.6
Date	12/01/2010							15:33:26
								12/01/2010



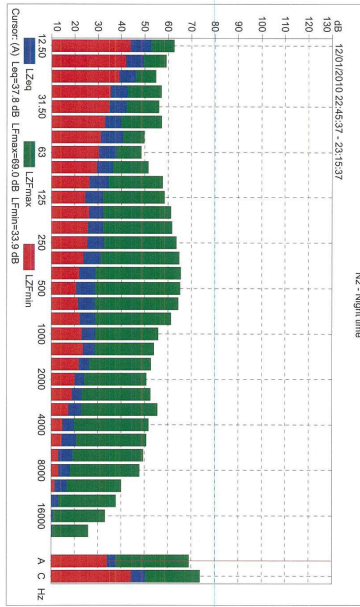
N1 - Night time

Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAFT0 [dB]	LAEP0 [dB]	LCpeak [dB]
23:53:19	00:23:22	0.00	71.4	39.7	47.6	43.3	41.1	97.1
Date	12/01/2010							00:01:17
								13/01/2010



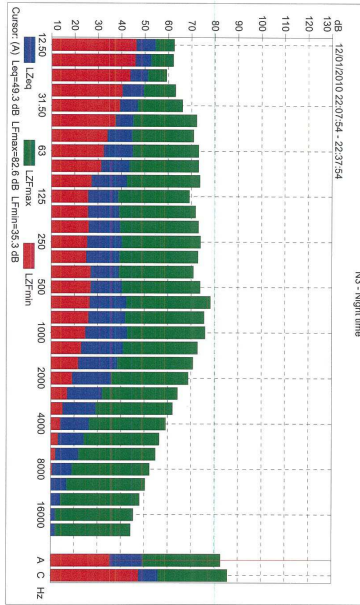
N2 - Night time

Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAF10 [dB]	LAF90 [dB]	LCpeak [dB]
22:45:37	23:15:37	0.00	69.0	33.9	37.8	38.3	35.7	96.5
Date	12/01/2010							23:15:33
								12/01/2010



N3 - Night time

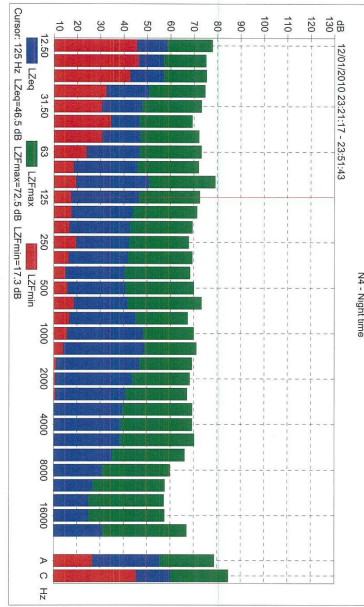
Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAF10 [dB]	LAF90 [dB]	LCpeak [dB]
22:07:54	22:37:54	0.00	82.6	35.3	49.3	46.1	37.5	99.5
Date	12/01/2010							22:18:43
								12/01/2010





N4 - Night time

Start time	End time	Overhead [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAFT0 [dB]	LAFT0 [dB]	LCpeak [dB]
23:21:17	23:51:43	0.00	78.8	26.4	55.4	56.8	39.7	101.8
Date	12/01/2010	12/01/2010						23:42:37
								12/01/2010



Appendix IV - Dust Monitoring Report



OUR REF: RP 2010 / KERRY COUNTY COUNCIL (DUST) / 01 (REV 01 ~ 24.06.11)

PAGE 1/1

ANALYSIS REPORT

CUSTOMER:	KERRY COUNTY COUNCIL	SAMPLE TYPE:	DUST
ADDRESS:	Environment Section, Maine Street, Tralee, County Kerry	CONDITION OF SAMPLE ON RECEIPT:	Satisfactory
REPORT TO:	PATRICK PHELAN	DATE SAMPLED:	July 2010 ~ 30 Days
SAMPLED BY:	Kerry County Council	DATE RECEIVED:	07 October 2010
SAMPLING PT:	DINGLE CIVIC AMENITY SITE	DATE ANALYSED:	27 October ~ 03 November 2010
ORDER NO:	-	DATE REPORTED:	04 November 2010
		WORK NO.:	23845 C

TABLE OF RESULTS

<i>METHOD:</i>	<i>LAB REF:</i>	<i>YOUR REF:</i>	TOTAL PARTICULATES mg/m³/day	ORGANIC PARTICULATES mg/m³/day	INORGANIC PARTICULATES mg/m³/day
<i>TA Luft VDI 2119</i>	C10-Oct 133	D1 ~ Dingle CAS	348	234	114
<i>TA Luft VDI 2119</i>	C10-Oct 134	D2 ~ Dingle CAS	164	102	62
<i>TA Luft VDI 2119</i>	C10-Oct 135	D3 ~ Dingle CAS	108	80	28
<i>TA Luft VDI 2119</i>	C10-Oct 136	D4 ~ Dingle CAS	226	174	52

Karen Lavery
 Karen Lavery
 Chemistry Laboratory

- * The results relate only to the items tested.
- * The analysis report shall not be reproduced except in full without written approval of the laboratory.

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Appendix V - Energy Efficiency Audit Report

Energy Audit Report

for

**Dingle Civic Amenity Centre
Flemingstown, Lispole**

Site:	WTS at Flemingstown Lispole	
Date of Site Visit:	27 November 2009	
Present:	Frank Doherty	KCC Waste Transfer Station (066 9151566)
	Adam Stack	KCC Energy Office (066 7183871)
Report Revision:	Rev 3	
Report Compiled:	07/07/2011	
Site MPRN:	10304070581	

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Introduction

The site was visited on 27th Nov 2009 to assess energy consumption and energy management at the site. This updated report was compiled on 07/07/2011 by Kerry County Council Assistant Energy Officer following a telephone consultation with the site caretaker. Electrical energy is consumed at the site by compactors, office equipment, office heating and site and office lighting.

Site Details

Principal Energy consumers:

- Moovmor Mixed Waste Compactors x 2 / Auto switch off
- Cardboard Compactor x 1 / Auto switch off
- Street lamps x 19

- Halogen Light Fittings x 5 / On – off manually switched x 4
Motion control x 1 at entrance
- Storage Heaters x 2

Opening Hours

Tuesday	11:00-19:00
Thursday	09:00-17:00
Saturday	09:00-17:00

Lighting

Street Lighting

Control: Timer & Lux
 Number of lights: 19

Gate Light

Control: Motion
 Number of lights: 1

Hazards Shed

Fluorescent light fittings: Qty 6
 Model FPHFM5-49
 On/Off switch control
 Halogen lights at front of shed: Qty 2
 On/Off switch control

WEEE Shed

Fluorescent light fittings: Qty 6
 Halogen lights at front of shed: Qty 2

Main Compactors

Moovmor Compactors for mixed waste.
 1 x ~40W light at control panel. On/Off switch control
 Auto off compacting cycle. Qty 2.
 #1: Model: 3000 Static Compact
 SN: SC30083631
 Manufactured 2008
 #2: Model: 3000 Static Compact
 SN: SC30083634
 Manufactured 2008

Cardboard compactor

Switch on / auto off.
 Manufacturer: KK Hydraulics (CWS Complex Rock Street Tralee)

Office

Qty 1 x storage heater (2 cables connecting) Dimplex.
 Qty 1 x Printer
 Qty 1 x PC + Monitor
 Qty 1 x Fax
 Qty 1 x Photocopier
 Qty 2 x Light Fittings On/Off switch control

Office bathroom

Qty 1 x Elec Hand Drier (Vortice)
 Qty 1 x Elec Shower Mira Sport
 Qty 1 x light fitting in

- o Shower
- o Hall

- Toilet

Public Toilets

Qty 2 x outside lights on/off switch control

- No motion / lux

Qty 1 x Undersink electric water heater in one toilet / this is connected to 2nd sink also

- 10L Atlantic Code 315211 PC10U 2000W 230V

Qty 1 x hand drier in each toilet

Kitchen

Qty 1 x Fridge

Qty 1 x Microwave

Qty 1 x Undersink electric water heater

- 10L Atlantic Code 315211 PC10U 2000W 230V

Qty 1 x circular light fitting. On/off switch control

Qty 1 x storage heater (2 cables connecting) Dimplex

Additional

CCTV: Qty 6 cameras installed 07/12/2010

Energy Monitoring

As part of the Kerry Local Authority Energy Management Action Plan (Energy MAP), a log of the electricity consumption was set up in November 2009. Readings are taken from the on site electricity meter and logged on an excel spreadsheet. The monthly waste tonnage compacted at the site is also logged. Automatic kWh/day and kWh/Tonne trends are generated. Refer to Fig 1 and Fig 2. This serves to improve awareness of energy consumption on site.

Electricity Consumption Trends

The daily average electricity consumed at the site is 28kWh for the period July 2010 to July 2011. The peak daily consumption during this period was 85kWh/day recorded in January. Daily consumption during the summer period is considerably lower – during the period from 25/06/2011 to 02/07/2011 the daily average electricity consumed was 13kWh. Night storage heating and site lighting account for increased electricity demand during winter months – ref Figure 1.

Opportunity for Energy & Cost Saving

Change of meter: Electricity meter to be reconfigured to enable Kerry County Council to avail of night rate tariffs for storage heating purposes.

Monitoring of EPIs: Continued monitoring of the Energy Performance Indicator (EPI) trend and daily consumption trend is recommended for site personnel.

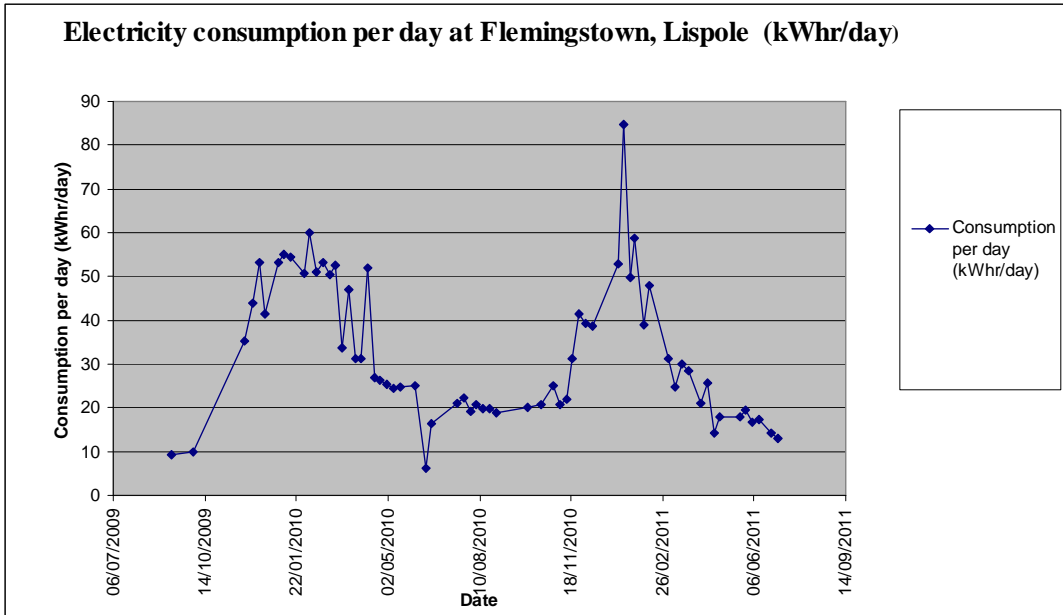


Figure 1: Electricity consumption trend.

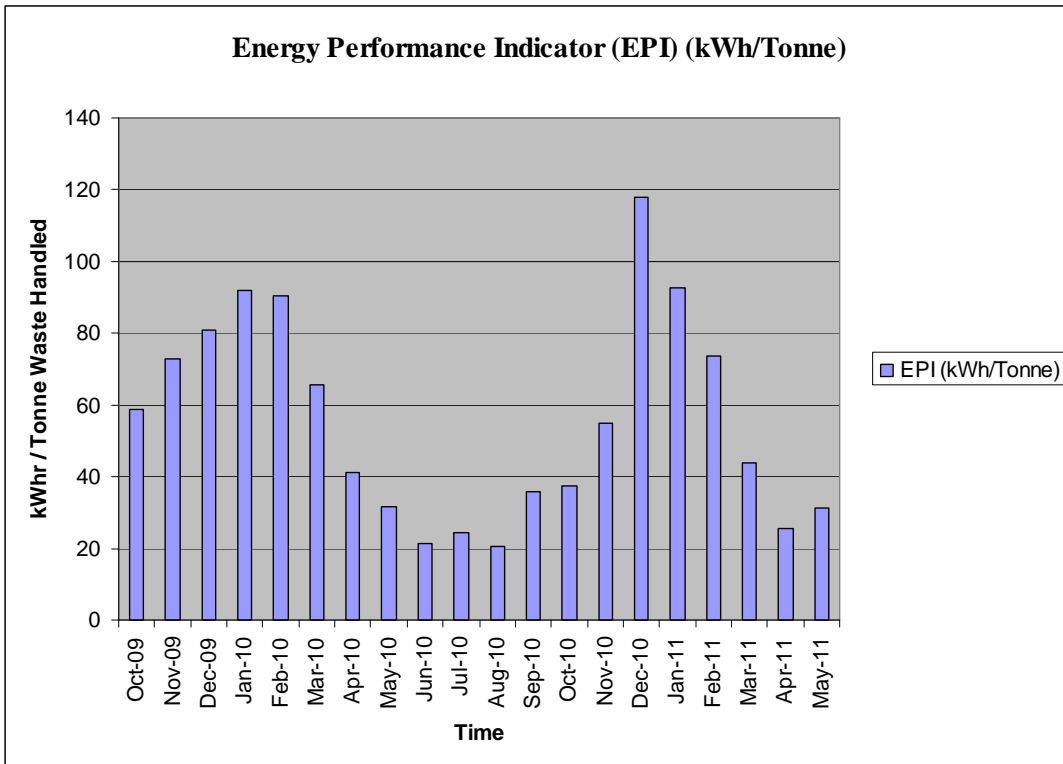



Figure 2: Energy Performance Indicator for Flemingstown Lispole

Appendix VI - AER/PRTR Return 2010



Environmental Protection Agency

[PRTR] W0225 - Facility Name: Dingle Civic Amenity Centre [Name] W0225
AER PRTR 2010 (1-6) (Return Year: 2010)

11/06/2011 10:38

Guidance to complete the PRTR workbook

AER Returns Workbook

02/2011 1.1.11

REFERENCE YEAR 2010

1. FACILITY IDENTIFICATION

Parent Company Name	Kerry County Council
Facility Name	Dingle Civic Amenity Centre
PRTR Identification Number	W0225
Licence Number	W0225-01
Location	

Waste or IPPC Classes of Activity

No.	Class name
3.12	Preparation 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.
4.13	Production (including 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	Edgingstown
Address 2	Edging
Address 3	An Dalteagan
Address 4	
Country	IRELAND
Coordinates of Location	52°13' N 10°14' W
River Basin District	EDW
NACE Code	92.11
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	John Linnon
AER Returns Contact Email Address	linnonj@kccoco.ie
AER Returns Contact Position	Executive Officer
AER Returns Contact Telephone Number	067 162000
AER Returns Contact Mobile Phone Number	087 9778005
AER Returns Contact Fax Number	067 1620011
Production Volume Limits	0 t
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
00.1	General
00.1	General

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2003)

is it applicable?	
have you data against an exemption?	
if applicable which activity class applies (as per Schedule 2 of the regulations)?	
is the reduction scheme compliance route being used?	

4.3 RELEASES TO WASTEWATER OR SEWER [Link to previous years emissions data](#) | PRTR# : W0225 | Facility Name : Dingle Civic Amenity Centre | Filename : W0225 AER PRTR 2011 | 11/04/2011 16:19

SECTION A : PRTR POLLUTANTS
OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE WATER TREATMENT OR SEWER Please enter all quantities in this section in KGs

No. Annex II	POLLUTANT Name	M/C/E	Method Code	METHOD Used Designation or Description	QUANTITY		
					Emission Point 1	T (Total) KG/Year	A (Accidental) 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 POLLUTANT EMISSIONS (as required in your Licence)
OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE WATER TREATMENT OR SEWER Please enter all quantities in this section in KGs

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

4.4 RELEASES TO LAND [Link to previous years emissions data](#) | PRTR# : W0225 | Facility Name : Dingle Civic Amenity Centre | Filename : W0225 AER PRTR 2010 V1.xls | Release Year : 2010 | 11/04/2011 16:19

SECTION A : PRTR POLLUTANTS
RELEASES TO LAND Please enter all quantities in this section in KGs

No. Annex II	POLLUTANT Name	M/C/E	Method Code	METHOD Used Designation or Description	QUANTITY		
					Emission Point 1	T (Total) KG/Year	A (Accidental) 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 POLLUTANT EMISSIONS (as required in your Licence)
RELEASES TO LAND Please enter all quantities in this section in KGs

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

Please enter details below then click the OK button

Name of Final Recoverer / Disposer	Nehlsen GmbH & Co KG
License / Permit No. of Final Recoverer / Disposer	D33300040
Address of Final Recoverer / Disposer	
Address 1 / Street name	
Address 2 / Building number	
Address 3 / City name	Bremen
Address 4 / Postcode	
Country	Germany
Address of Actual Recovery / Disposal Site	
Address 1 / Street name	
Address 2 / Building number	
Address 3 / City name	Bremen
Address 4 / Postcode	
Country	Germany

Please enter a full stop "." in an address field if there is no data to be entered

Alternatively, please select from previously entered details by clicking on the row below then click OK

Name and License / Permit No.	Address of Final Recoverer / Disposer	Address of Actual Recovery / Disposal Site
EMR_EAWML 40041/SL0967	Bentley Road South, Darlaston West Midlands,WS10 8LW Engla	Bentley Road South, Darlaston West Midlands,WS10 8LW England,United Kingdom
Recycling Village WFFPLH10AW01C	Monasterboice Co. Louth,Ireland	Monasterboice Co. Louth,Ireland
Alba Service GmbH & Co. KG,E566 Kanalstrasse 64, ...48432 Rheine,Germany	Kanalstrasse 64, ...48432 Rheine,Germany	Kanalstrasse 64, ...48432 Rheine,Germany
Nehlsen GmbH & Co KG,D3330004 ...Bremen,GermanyBremen,Germany