Kerry County Council

Waste Licence Ref No. W0086-01

Kenmare Transfer Station
Annual Environmental Report

Reporting Period:

January – December 2015

Prepared By:
Environmental Service Section,
Kerry County Council,
Maine Street,
Tralee
Co. Kerry.

March 2015

1.0 Introduction

Kerry County Council operates a waste transfer and recycling facility located in the townland of Claddanure West, approximately 1 km off the main Killarney/Kenmare Road, approximately 4.7 km north west of the town of Kenmare, Co. Kerry. The site is located at the western end of the county road L782.

The principal activity of the Transfer Station is the compaction of solid waste into 30 cubic meter closed containers for subsequent transfer and disposal at North Kerry Landfill in Muingnaminane, Tralee.

Other activities include the recycling or reclamation of inorganic materials including metals, glass, steel and aluminium cans, car batteries, dry cell batteries, fluorescent tubes, domestic hazardous waste, cardboard, plastic bottles and newspapers.

This Annual Environment Report is prepared in accordance with Condition 2.8 and Schedule B of Waste Licence W0086-01 issued by the Environmental Protection Agency (EPA).

2.0 Reporting Period

The reporting period for this Annual Environmental Report is 1st January– 31st December 2015.

3.0 Waste Activities

Waste disposal activities carried out at Kenmare Transfer Station are in accordance with Part 1 of Waste Licence W0086-01 which outlines the waste disposal activities licensed in accordance with the Third Schedule of the Waste Management Act 1996.

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 Kenmare Transfer Station are in accordance with Part 1 of Waste Licence W0086-01 which outlines the waste recovery activities licensed in accordance with the Fourth Schedule of the Waste Management Act 1996. Licensed activities include:

Class 1 Solvent reclamation or regeneration.

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 2015

The total waste disposed of at Kenmare Civic Amenity site in 2015 was 785.55 tonnes which was a decrease of 34.41 tonnes on the 2014 figures as per Table 1 .

Waste Category/Source	*2012*	*2013*	*2014*	*2015*
Household Waste	689.16	608.50	631.00	595.25
Commercial Waste	196.62	187.02	172.58	176.58
Road Sweeping	4.5	0	0	0
Flytipping	13.86	21.28	16.38	13.72
Total Tonnes	**904.14**	**816.80**	**819.96**	**785.55**

Table 1 Waste Stream Break down for reporting Period.

The quantity of waste sent for recycling in 2015 was **358.38 tonnes** which is virtually the same as the 2014 figure of 360.72 tonnes. Waste sent for recycling during the reporting period compared with previous years is outlined in Table 2.

Waste for Recycling & Recovery	EWC	2012	2013	2014	2015
Metals	20 01 40	32.64	40.56	49.70	55.22
Steel Cans	15 01 04	2.62	6.29	5.372	6.1840
Glass	15 01 07	44.86	64.26	63.653	71.073
Aluminium	15 01 04	1.1	1.66	1.673	1.8940
Batteries	16 06 02*	0.13	1.63	2.916	2.752
Newspapers and Magazines	20 01 01	81.18	79.28	88.12	79.20
Cardboard	15 01 01	11.06	12.26	22.48	23.68
Fluorescent Tubes	20 01 21	0.14	0.5	0.355	0.369
Plastic Bottles	15 01 02	32.75	33.20	42.325	37.880
WEEE	20 01 36	76.22	80.29	71.743	63.071
Mixed Packaging	20 03 01	5.76	7.64	11.48	14.00
Waste Mineral Oil	13 02 08	0.1	1.08	0.36	0.89
Waste paint and varnish (including containers)	20 01 27				1.87
Textiles	20 01 11	0	0	0.54	0.30
Total for Recycling/Recovery	**Tonnes**	**288.56**	**328.65**	**360.72**	**358.38**

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

Appendix I contains: the breakdown of waste by source which is repackaged for disposal off site during the reporting period

5.0 Projections of the quantities to be accepted and percentages disposed and recycled/recovered for the coming year

On the 31st August 2015 the Government introduced a new legislative framework to give effect to previously flagged commitments around the management of household waste by amending the Waste Management Act 1996 through the Environment (Micellaneous Provisions) Act 2015.

An introduction of 'Pay by Weight' charging for household kerbside waste collections is to be in place by 1st July 2016 (however the introduction of 'Pay by Weight' to the various *recycling /civic amenity sites* has yet to be introduced.)

It is forecasted that the proposed Household Waste regulations will have an impact on the operation and site layout of the Kenmare Waste Transfer Station and may give rise to an increase in the number of customers using this facility. Once the regulations are enacted , it is Kerry County Council's intension to assess the impact of these regulations and adapt the site where necessary to meet the new requirements. The Agency shall be informed of any changes to the site layout etc.

As per the trends set out in Table 2, the WEEE tonnage for 2016 should decrease with the change in the manner in which WEEE is collected from shops as per WEEE Regulations S.I of 2014.

6.0 Summary Report on Emissions for the Reporting Period

a) Foul Water Emissions

A Puraflow Wastewater Treatment Unit is installed at the facility to treat all foul waters from the site including discharges from the transfer station shed, compactor and bin loading area. Foul water is treated in the Puraflow unit and discharged to the surface water drains.

The foul water discharge is monitored quarterly. The results are sent to the EPA and are also available at the Kenmare facility.

b) Surface Water Emissions

Surface water runoff from site roads and uncontaminated surfaces discharges via silt traps to the surface water drains.

7.0 Summary of Results and Interpretations of Environmental Monitoring

a) Dust monitoring

Dust Monitoring was carried out at the facility at Stations 1-5 in September/October 2014. However no dust monitoring was carried out during 2015. There were no issues with dust during 2014 and no complaints were received in relation to dust at the facility during 2015. It is proposed to carry out dust monitoring of the civic amenity site during 2016.

b) Noise monitoring.

Noise Monitoring was carried out by Malachy Walsh & Partners (Environmental Consultants) on the 20th January 2015 and an analysis of the results, combined with on site observations are attached (See Appendix IV.)

The result indicates that the Kenmare Waste Transfer Station is not a noise nuisance and complies with the noise limit criteria set out in the waste licence.

The main contributing noise sources off site at the nearest dwelling in particular were not associated with the waste transfer station.

c) Monitoring of surface water.

The surface water monitoring results are attached in Appendix II.

d) Foul Water

The foul water emission monitoring results are attached in Appendix II.

The foul water is discharged via a Puraflow Wastewater Treatment Unit and is monitored quarterly. The results are sent to the EPA via six monthly reports and are also available at the Kenmare facility and Environmental Services Office.

Cleaning out and a service of the wastewater treatment system was carried out in 2015 which also included a general clean up of the concrete apron(holding the compactor refuse bins) and the storm water drains etc resulted in 5.38 tonnes of sludge and foul water removed from the system.

e) Bund and Tank Integrity Test

No bund and tank testing was carried out in 2015 however the bund was tested in January 2016 and the results have been uploaded to the EDEN system. A copy of the report is attached (See Appendix iv)

8.0 Resource and Energy Consumption Summary

The following is the energy consumption for Kenmare Transfer Station for the reporting period.

8.1 Diesel

The diesel usage for Kenmare Transfer Station for the reporting period 2015 was 500 litres. In 2014 it was 896 litres. The primary usage of diesel is for the rubber tyre excavator on site, waste compactor and the oil burner in the steam washer.

8.2 Electricity

The trends for electricity usage for Kenmare are as follows:

Year	Kenmare average kWh/Day electricity consumption
2015	17.5
2014	12.5
2013	13.8
2012	13.9

Power is required for the office computer and lighting, weighbridge, waste compactor, storage heating, water pumping, cardboard baler, cctv ,and public lighting on the site.

8.3 Water

Water supply for the recycling centre is from a groundwater well/ borehole. While the borehole is not metered, usage for the facility during the reporting period would be similar to other transfer centres of similar size , approximately was 24 m^3 .

The water is mainly used for the office toilet/sinks as well as power washing the yards, transfer station apron/hopper and washing of trucks and bins .

9.0 Report on Development Works Undertaken during the Reporting Period

No development works were undertaken at the facility during the reporting period.

10.0 Timescale for Proposed Development Works For Forthcoming Year

On the 31st August 2015 the Government introduced a new legislative framework to give effect to previously flagged commitments around the management of household waste by amending the Waste Management Act 1996 through the Environment (Micellaneous Provisions) Act 2015.An introduction of 'Pay by Weight' charging for *household kerbside waste collections* is to be in place by 1st July 2016 however the introduction of 'Pay by Weight' to the various recycling /civic amenity sites has yet to be enacted.

It is forecasted that the proposed Household Waste regulations will have an impact on the operation and site layout of the Kenmare Recycling & Transfer Station. Once the regulations are brought into statute, it is Kerry County Council's intension to assess the impact of these regulations and adapt the site where necessary to meet the new requirements. The Agency shall be informed of any changes to the site layout etc.

11.0 Environmental Management System

There is an Environmental Management System(EMS) for the Kenmare Recycling centres however the proposed Household Waste Regulations once implemented will have an effect on the current EMS .This impact will be assessed and the EMS updated accordingly. The EPA will be notified of any changes to the Environmental Management System .

12.0 Report Targets and Environmental Objectives and Targets for 2016.

Target Area	2016 - Objective	2016 – Expected Outcome to Indicate achievement of target
Odour Management	Continue to ensure that the waste facility does not cause a nuisance in terms of odour through good housekeeping practices on site.	No odour complaints received due to onsite/offsite odour.
Waste Storage Practices	Ensure good housekeeping on site so that waste is stored and collected in a timely fashion so as not to cause a nuisance on site or to the surrounding areas. Construction/placement of secure sheds on site for the storage of WEEE and bailed cardboard.	No wind blown litter on site or on the public road adjacent to our site. No overflowing bins on site. Proper segregation of cardboard and WEEE on site.
Incident Prevention	Continue with daily inspection and record keeping of emergency 'STOP' controls on site as well as the Fire Preventative and Emergency Response Procedure for the site.	Staff will strive to ensure no incidents occur on site by being vigilant and act on notifiable incidents immediatey or in so far as is reasonably practicable.
Infrastructure integrity and drainage	An Integrity test was completed on the diesel bund in January 2016 and it is Kerry County Council's intension for its Technical staff to carry out the integrity test every 3 years as per Schedule C of Waste Licence W86-01.	Compliance with Bund and tank integrity assessment.
Waste acceptance, Classification and records	Continue to record and document all waste types entering and leaving the site with monthly verifiable reports being produced.	Monthly reports on waste streams produced and verified.
Proposed Household Waste Regulations	It is forecasted that the proposed Household Waste Regulations will have an impact on the operation and site layout of the Kenmare Recycling/Waste Transfer Station. Once the regulations are brought into force for the 'recycling/transfer station', it is Kerry County Council's intension to assess their impact and adapt the site where necessary to meet the new requirements.	Household Waste Regulations have yet to be enacted at the various Recycling/transfer centres. We will strive to ensure full compliance with the proposed 'pay by weight' regulations.

13.0 Summary of Procedures Developed by the Licensee

The following procedures were developed during the reporting period:

- Revised Operational Procedures for the site supervisor which included a daily inspection checklist of 'Emergency Stops' within the confines of the Transfer/ Recycling centre.

14.0 Reported Incidents and Complaints

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

15.0 Report on Financial Provision

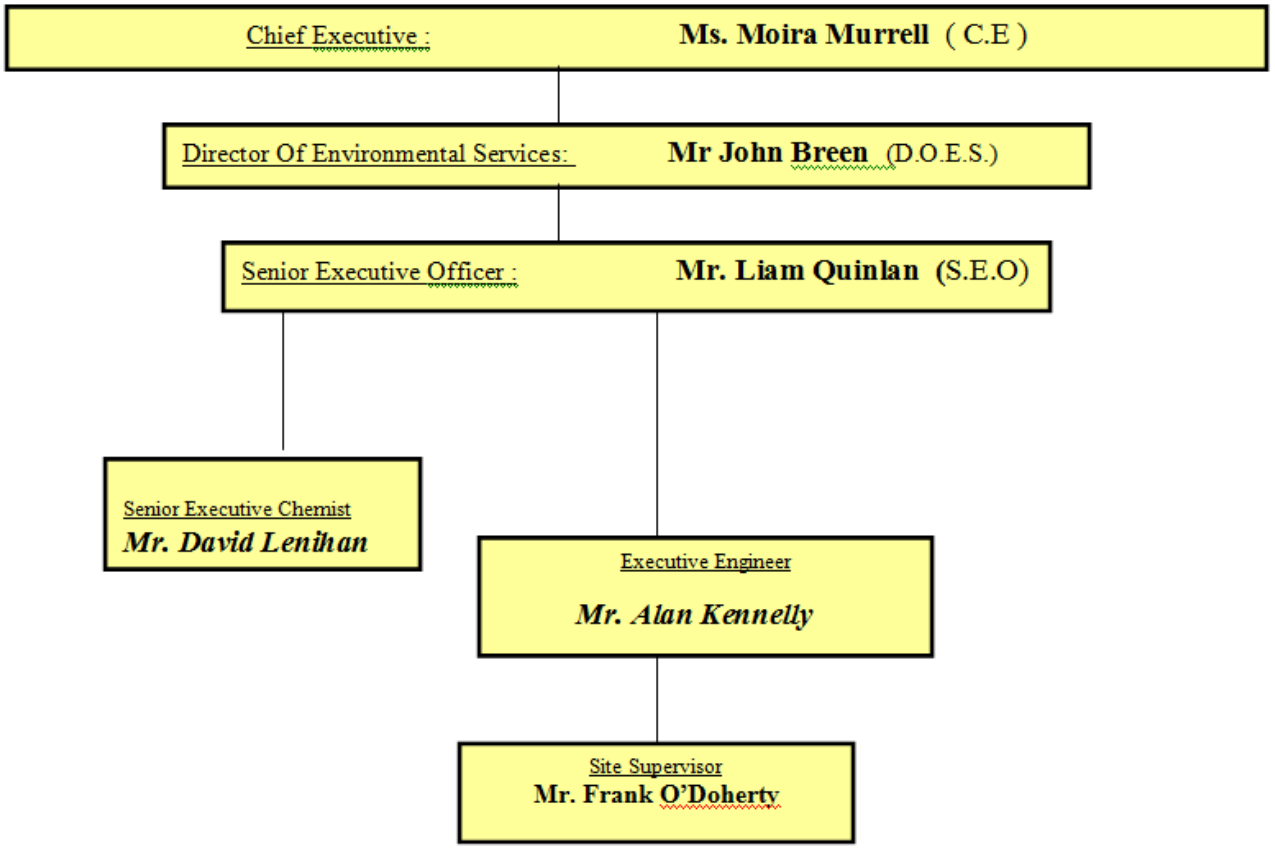
(a) Statement of Costs for Waste Operations 2015

Accelem	Accelem (Text)	Total Charge (€)
60030	Wages	€24,646.40
60040	Salaries	€4,061.85
60100	ER PRSI	€5,527.40
60200	Overtime	€8,121.12
60300	Arrears	€25.65
60400	Sick Pay	€12,707.57
60500	Annual Leave	€3,800.11
60510	Bank Holiday Leave	€1,367.39
60600	Travel/Subsistence	€2,234.72
60700	Eating on site allowance	€13.30
65500	Minor Contracts- Trade Services & other works	€82,785.41
66500	Non-Capital Equip Purchase - Fire Services	€33.40
67500	Non-Capital Equip Purchase - Computers	€1,031.95
68000	Non-Capital Equip Purchase - Office Equip/Furn	€109.00
68500	Non-Capital Equip Purchase - Other	€226.50
69000	Hire (Ext) - Plant/Transport/Machinery & Equipment	€636.00
69200	Repairs & Maint - Plant	€94.78
69260	Repairs & Maint - Other Equip	€24.35
69400	Transfers from Machinery Yard	€7,434.50
69600	Other Vehicle Expenses	€102.00
70000	Materials	€465.25
70990	Issues from Stores	€2,369.48
70991	Returns to Stores	-€230.11
71000	Insurance	€407.51
73400	Staff Travelling & Subsistence Expenses	€3,478.51
76000	Communication Expenses	€344.95
76100	Postage	€28.00
77200	Security - Property	€165.00
78000	Training	€0.00
79900	Consultancy/Professional Fees and Expenses	€880.00
81000	Printing & Office Consumables	€18.99
82100	Statutory Contributions to Other Bodies	€10,575.96
85100	Rates & Other LA Charges	€76.00
86000	Energy / Utilities	€2,525.15
	TOTAL	**€176,088.09**

(b) Statement of Costs for Recycling Operations 2016

Accelem	Accelem (Text)	Total Charge (€)
60030	Wages	€18,807.76
60040	Salaries	€4,826.95
60100	ER PRSI	€4,060.87
60200	Overtime	€6,083.45
60300	Arrears	€25.65
60400	Sick Pay	€8,879.73
60500	Annual Leave	€2,240.59
60510	Bank Holiday Leave	€301.07
60600	Travel/Subsistence	€1,983.83
61990	Other Allowances	€2.99
65500	Minor Contracts- Trade Services & other works	€8,853.45
66500	Non-Capital Equip Purchase - Fire Services	€15.10
68500	Non-Capital Equip Purchase - Other	€144.00
69200	Repairs & Maint - Plant	€0.00
69260	Repairs & Maint - Other Equip	€9.65
69400	Transfers from Machinery Yard	€825.00
70000	Materials	€734.87
70990	Issues from Stores	€1,676.25
71000	Insurance	€0.00
73400	Staff Travelling & Subsistence Expenses	€260.71
76000	Communication Expenses	€125.16
77200	Security - Property	€165.00
78000	Training	€0.00
80000	Advertising	€0.00
81000	Printing & Office Consumables	€46.00
82100	Statutory Contributions to Other Bodies	€0.00
85100	Rates & Other LA Charges	€0.00
86000	Energy / Utilities	€0.00
99050	Refunds	€10.40
	TOTAL	**€60,078.48**

16.0 Management and Staffing Structure at the Facility December 2015



17.0 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 Kenmare Transfer Station and Recovered/Recycled offsite during reporting period 2015

Kenmare Transfer Station Residual Waste - Tonnage Period 01/01/15 to 31/12/2015

	Levied Waste					Non Levied Waste					Totals		
Month	Public Car Household	* Non weighed waste Inclusive of tickets	Account Holders VAT Inclusive	KCC Levied Waste	Total Levied Waste	KCC Road Sweeping & Streetcleaning	Graveyard Waste	KCC Clean Ups / F'tipping	Environment Clean Ups/ F'tipping - Invs Raised to Environment (In 2014 no invoices raised)	Total Non - levied	Total of Waste Over Weighbridge	Total Waste Out of Facility - Including Ticket Waste (Jan - 11th July 2014 = waste into NKL)	No. Loads out of TS
January 2015	19.04	35.24	11.46	0	65.74	0	0	0.14	0.4	0.54	31.04	66.28	7
January 2014	16.22	37.04	11.04	0	64.3	0	0	0	1.34	1.34	28.60	65.64	6
February 2015	13.1	21.92	10.56	0	45.58	0	0	0	0.34	0.34	24.00	45.92	5
February 2014	16.18	25.44	12.76	0	54.38	0	0	0	0.92	0.92	29.86	55.30	5
March 2015	16.04	22.92	10.28	0.00	49.24	0	0	0.3	1.52	1.82	28.14	51.06	6
March 2014	18.08	36.36	14.34	0	68.78	0	0	0.2	0.76	0.96	33.38	69.74	7
April 2015	21.82	34.8	17.8	0	74.42	0	0	0	3.02	3.02	42.64	77.44	8
April 2014	16.76	33.24	17.9	0	67.9	0	0	0	2.32	2.32	36.98	70.22	7
May 2015	18.66	18.51	13.14	1.42	51.73	0	0	0	0.56	0.56	33.78	52.29	6
May 2014	17.64	28.3	15.14	0	61.08	0	0	0.56	1.8	2.36	35.14	63.44	6
June 2015	25.4	38.36	13.58	0	77.34	0	1.18	0	0.74	1.92	40.90	79.26	9
June 2014	24.84	40.52	8.92	1.94	76.22	0	0	0.02	0.94	0.96	36.66	77.18	8
July 2015	23.14	29.9	21.38	0	74.42	0	0	0.2	1.74	1.94	46.46	76.36	9
Total July 2014	20.64	41.04	22.48	2.46	86.62	0	0	0.5	1.4	1.9	47.48	88.52	9
August 2015	26.28	38.42	17.92	1.78	84.4	0	0	1.14	0.46	1.6	47.58	86.00	10
August 2014	18.4	51.60	17.72	0	87.72	0	0	1.32	0.66	1.98	38.10	89.70	8
September 2015	19.76	32.94	21.36	0	74.06	0	0	0	0.52	0.52	41.64	74.58	8
September 2014	14.48	36.48	12.88	0	63.84	0	0	0.66	0.76	1.42	28.78	65.26	6
October 2015	18.18	29.88	13.56	0	61.62	0	0	0.16	0.22	0.38	32.12	62.00	7
October 2014	15.00	26.84	14.38	0.06	56.28	0	0	0	0.54	0.54	29.98	56.82	5
November 2015	22.46	21.96	11.58	0	56.00	0	0	0	0.56	0.56	34.60	56.56	6
November 2014	10.86	31.76	10.3	0	52.92	0	0	0	1.06	1.06	22.22	53.98	5
December 2015	19.42	27.1	10.76	0	57.28	0	0.00	0.28	0.24	0.52	30.70	57.80	6
December 2014	13.12	40.16	10.26	0	63.54	0	0	0	0.62	0.62	24.00	64.16	6
Total Tonnage 2015	243.30	351.95	173.38	3.20	771.83	0.00	1.18	2.22	10.32	13.72	433.60	785.55	87
Total Tonnage 2014	202.22	428.78	168.12	4.46	803.58	0.00	0.00	3.26	13.12	16.38	391.18	819.96	78
Grand Total			771.83					13.72					

Environment Clean Ups: Litter Warden 0.08 (Precleared Flytipping Public: 0.16 (Kenmare Tidy Town, 0.14 Bonane Tidy Town, 0.02)
KCC Clean Up/Flytipping: Kenmare Area Office: 0.28 t
A/C Customers: Kenmare Bay Hotel: 2.32 t; Michael Healy: 6.86 t; Park Hotel: 0.52 t; McSweeney & Sons: 0.38 t; Kenmare Plant Hire: 0.58 t; Sheen Falls Lodge: 0.26 t

All Figures Checked and Verified By:

Commercial Class: 0.32 t (not included in the report)

Facility closed on Saturday 5th December 2015 due to weather conditions

Household Waste Deposited at Kenmare Civic Amenity Sites in 2016

Material type	Suggested EWC codes	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Organic waste (food and garden)														0.00
food (compost waste Millbwn TS)	20 01 08													0.00
garden	20 02 01													0.00
Mixed dry recyclables (Ecosence Bags)	20 03 01	1.00	0.84	1.02	1.32	1.00	1.04	1.20	1.96	1.02	0.98	1.18	1.44	14.00
Cardboard, newspaper and other paper														0.00
cardboard packaging	15 01 01	1.70	1.62	1.64	2.14	2.22	2.16	2.88	2.50	1.82	1.76	3.24	0.00	23.68
cardboard non-packaging	20 01 01													0.00
paper packaging	15 01 01													0.00
paper non-packaging	20 01 01													0.00
newspaper and magazines	20 01 01	8.34	5.42	5.22	7.28	5.44	5.86	8.54	6.74	5.92	6.04	5.98	8.42	79.20
Glass														0.00
glass packaging (bottles)	15 01 07	7.1680	3.5220	3.5670	6.2680	4.3340	5.4050	5.1640	8.8200	5.0430	6.1480	7.3430	3.1510	65.9630
glass non-packaging (fat glass)	20 01 02													0.0000
Metals														0.0000
aluminium cans (packaging)	15 01 04	0.1820	0.0940	0.1110	0.1650	0.1480	0.1510	0.1580	0.2170	0.1390	0.1880	0.2230	0.1180	1.8940
steel cans (packaging)	15 01 04	0.5470	0.4740	0.4810	0.5300	0.3410	0.4570	0.5050	0.6310	0.4550	0.4760	0.7380	0.5490	6.1340
other metals (scrap metals)	20 01 40	2.44	2.68	5.66	4.32	3.82	6.88	3.10	4.64	5.58	7.32	4.24	4.54	55.22
Plastic														0.00
plastic packaging (bottles)	15 01 02	3.34	2.58	2.44	3.38	2.880	2.960	4.220	3.480	3.200	3.200	2.940	3.36	37.880
plastic non-packaging	20 01 39													0.00
polystyrene														0.00
Composite packaging (e.g. tetrapaks)	15 01 05													0.00
Textiles														0.00
textiles, packaging	15 01 09													0.00
textiles, non-packaging (clothes)	20 01 11											0.30	0.00	0.30
Wood														0.00
wood packaging	15 01 03													0.00
wood non-packaging	20 01 38													0.00
mixed, uncontaminated wood packaging and non-packaging (collected at An Daingean)	15 01 03; 20 01 38													0.00
wood, treated, hazardous	20 01 37*													0.00
Batteries	Portable batteries													0.00
lead acid batteries and accumulators (Car Batteries)	16 06 01*	0.00	0.00	0.00	0.00	0.00	0.000							0.000
Ni-Cd batteries and accumulators	16 06 02*	0.000	0.000	0.000	0.000	0.000	1.728	0.000	0.000	0.000	0.000	0.000	1.024	2.752
Other (e.g. alkaline) batteries and accumulators (Small Batteries)	16 06 04													0.00
														0.00
Household Hazardous Waste														0.00
Waste mineral oils	13 02 08	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.89
Oil filters (vehicles)	13 08 99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oil containers (mineral oil) - plastic + metal	13 08 99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste cooking or vegetable oils	20 01 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste paint and varnish (including containers)	20 01 27	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	1.025	0.00	1.87
Aerosols	14 06 01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WEEE collected by compliance schemes														0.00
CRT	20 01 36	1.263	1.862	0.474	1.294	1.752	1.304	0.000	2.213	0.662	0.884	0.000	1.355	13.063
SDA - Small Domestic Appliances	20 01 36	3.540	2.400	0.580	2.460	3.000	2.290	0.000	3.500	2.500	4.180	0.000	3.040	27.480
LDA - Large Domestic Appliances	20 01 36	0.000	0.000	3.500	2.220	0.000	0.000	2.492	1.820	0.750	0.000	3.620	0.000	14.402
Cold	20 01 36	0.000	0.000	1.566	1.274	0.000	0.000	0.854	1.194	0.357	0.000	2.881	0.000	8.126
														0.00
														0.00
WEEE taken off-site by charities (e.g. mobile phones)	20 01 35													0.00
Commercial Glass (Kenmare TS only)	15 01 07		1.10		1.00				1.66			1.38		5.14
Fluorscent Tubes	20 01 21	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.10	0.00	0.089	0.00	0.369
Sludge	<enter EWC code>													0.00
Foul Water Septic Tanks	19 07 03							2.22	3.16					5.38

* Lead Acid Batteries - tonnage by KMK Metals

1 x load Scrap Metals not charged for in March 2015 as per Tara O Carroll - only 3.38 tonnes charged for

Appendix II

Surface Water Monitoring Results

	Parameter	Ammonium	pH	BOD (5day	Conductivit	Chemical (	Chloride	Dissolved (	Suspended	Temperatu	Appearanc	Odour	Oils/Fats &
		NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem		Physchem	OFG
	Max.	Varies	Varies	--	Varies	--	Varies	Varies	--	--	--	--	--
	Target	--	--	--	--	--	--	--	--	--	--	--	--
	Min.	--	Varies	--	--	--	--	Varies	--	--	--	--	--
	Project	Location	Location E	Location N	Sample Re	Sample Date	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C	Descriptive	Descriptive	mg/l
	Kenmare	Sw1	88320	73367	2014/0334	29-Jan-14		0.23	6.6	1.5	165	12	47.3	11.4	< 1	6.3	Clear	ND	
	Kenmare	Se1	88375.1	73303.8	2014/0476	11-Feb-14		0.05	6.9	2.7	145	55			41			ND	< 0.5
	Kenmare	Sw1	88320	73367	2014/1309	01-Apr-14		1.58	6.3	1.8	142	21	26.3	7.2	< 1	9.5	Clear	N.D	

SAMPLING POINT	Sampling Point	Sample No.	Sampled Date	Sampled Time	Parameter	Odour	Temperature	pH	Conductivity	B.O.D.	C.O.D.	Ammonia	Chloride	Dissolved Oxygen	Suspended Solids	Visual Inspection
					Reported Name											
					Min. Value			6.0				0.0				
					Max Value			9.0				0.0				
					Units	*NONE*	*DEG_C*	*PH*	*USCM*	*BOD*	*MGL*	*MGLN*	*MGL*	*MGL*	*MGL*	*NONE*
KENMARE_SW1	Kenmare Sw1	2014/2964	23-Jul-14	14:50		Normal	20.5	6.2	106	2.5	20	0.66	14.7		4	Clear

	Project	Location	Location E	Location N	Sample Re	Sample Date	Comments	Parameter	Ammonium	pH	BOD (5da	Conductivi	Chemical (	Chloride	Dissolved	Suspende	Temperatu	Appearanc	Odour	Oils/Fats &
									NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem		Physchem	OFG
								Max.	Varies	Varies	--	Varies	--	Varies	Varies	--	--	--	--	--
								Target	--	--	--	--	--	--	--	--	--	--	--	--
								Min.	--	Varies	--	--	--	--	Varies	--	--	--	--	--
	Kenmare	Sw2	88309	73232.4	2014/0337	29-Jan-14			0.02	5.7	< 1	162	11	49	11.3	< 1	6.2	Clear	ND	
	Kenmare	Sw2	88309	73232.4	2014/1312	01-Apr-14			0.02	6.6	< 1	98	18	24.5	9.9	< 1	9.2	Clear	N.D	
	Kenmare	Sw2	88309	73232.4	2014/1310	01-Apr-14			0.06	6.5	< 1	98	16	24.7	9.9	< 1	9.2	Clear	N.D	

SAMPLING POINT	Sampling Point	Sample No.	Sampled Date	Sampled Time	Parameter	Odour	Temperature	pH	Conductivity	B.O.D.	C.O.D.	Ammonia	Chloride	Dissolved Oxygen	Suspended Solids	Visual Inspection
					Reported Name											
					Min. Value			6.0				0.0				
					Max Value			9.0				0.0				
					Units	*NONE*	*DEG_C*	*PH*	*USCM*	*BOD*	*MGL*	*MGLN*	*MGL*	*MGL*	*MGL*	*NONE*
KENMARE_SW2	Kenmare Sw2	2014/2965	23-Jul-14	15:40		Normal	19.5	6.5	70	<1.0	26	0.08	11.8		5	Clear
	Kenmare Sw2	2014/4489	05-Nov-14	13:50		Normal	9.9	6.0	57	<1.0	23	0.03	14.5	10.6	<1	Clear

	Project	Location	Location E	Location N	Sample Re	Sample Date	Parameter	Ammonium	pH	BOD (5day	Conductivi	Chemical (	Chloride	Dissolved	Suspended	Temperatu	Appearanc	Odour	Oils/Fats &
								NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem		Physchem	OFG
							Max.	Varies	Varies	--	Varies	--	Varies	Varies	--	--	--	--	--
							Target	--	--	--	--	--	--	--	--	--	--	--	--
							Min.	--	Varies	--	--	--	--	Varies	--	--	--	--	--
							Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C	Descriptive	Descriptive	mg/l
	Kenmare	Sw3	88301	73462.5	2014/1311	01-Apr-14	Stagant	1.57	6.9	1.2	154	28	25.9	8	< 1	9.1	River Like	N.D	

SAMPLING POINT	Sampling Point	Sample No.	Sampled Date	Sampled Time	Parameter	Odour	Temperature	pH	Conductivity	B.O.D.	C.O.D.	Ammonia	Chloride	Dissolved Oxygen	Suspended Solids	Visual Inspection
					Reported Name											
					Min. Value			6.0				0.0				
					Max Value			9.0				0.0				
					Units	*NONE*	*DEG_C*	*PH*	*USCM*	*BOD*	*MGL*	*MGLN*	*MGL*	*MGL*	*MGL*	*NONE*
KENMARE_SW3	Kenmare Sw3	2014/2966	23-Jul-14	15:15		Normal	19.8	6.1	106	1.3	37	0.86	14.2		4	Clear
	Kenmare Sw3	2014/4488	05-Nov-14	13:50		Normal	9.9	6.3	77	<1.0	27	0.18	15.8	9.6	<1	Clear
	Kenmare Sw3	2014/4490	05-Nov-14	14:20		Normal	10.0	6.1	81	<1.0	39	0.31	15.3	8.9	1	Clear
	Kenmare Sw3	2014/4491QA	06-Nov-14	14:20		Normal	10.0	6.1	81	<1.0	40		15.7	8.9	<1	Clear

Foul Water Monitoring Results

							Parameter	Ammonium	pH	BOD (5day	Conductivi	Chemical C	Chloride	Dissolved	Suspended	Temperatu	Appearanc	Odour
								NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem		Physchem
							Max.	Varies	Varies	--	Varies	--	Varies	Varies	--	--	--	--
							Target	--	--	--	--	--	--	--	--	--	--	--
							Min.	--	Varies	--	--	--	--	Varies	--	--	--	--
	Category	Project	Location	Location E	Location Northing	Sample Re	Sample Date	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C	Descriptive	Descriptive
	Landfill	Kenmare	Se1	88375.1	73303.8	2014/1863	12-May-14		0.8	6.5	3.1	95	60			25	14.5	Clear	ND

									Analysis	003_ODOUR	005A_TEMP_FIELD	006_PH	007A_CONDUCTIVITY20	013C_BOD_ATU	014_COD	022K_AMMONIA	027_FOG	037_SUSPENDED SOLIDS	082_VIS_INSPECTION
									Parameter	Odour	Temperature	pH	Conductivity	B.O.D.	C.O.D.	Ammonia	Total OFG	Suspended Solids	Visual Inspection
									Reported Name										
									Min. Value										
									Max Value										
	Product	Product Version	Project	SAMPLING POINT	Sampling Point	Sample No.	Sampled Date	Sampled Time	Units	NONE	DEG_C	PH	USCM	BOD	MGL	MGLN	MGL	MGL	NONE
	LEACHATE	1	Kenmare	KENMARE_SE1	Kenmare Se1	2014/3199	12-Aug-14	14:10		Normal	17.0	6.8	199	4.6	77	0.61	<1	10	Clear
					Kenmare Se1	2014/4856	24-Nov-14	13:00		Normal	10.8	7.1	120	7.1	72	0.43	<1	8	Clear, Coloured.

Appendix III – Bund Integrity Test

AXIS ENVIRONMENTAL SERVICES
Air I Noise I Water I Soil I Environmental Consultancy www.axisenv.ie

Unit 5 Caherdavin Business Centre,
Ennis Road,
Limerick.

Kerry County Council

Kenmare Transfer station, Claddanure West, Kenmare, Co. Kerry

Bund Integrity Report 2016

Waste License Number: WL0086-01

1.0 Introduction

Kerry County, Council, Kenmare waste transfer station, Claddanure West, Kenmare, Co. Kerry are required as part of Waste Licence number WL0086-01, Condition 9.1 and Schedule C to have their bunds tested for the protection of ground and surface water every third year.

The bunds were tested in accordance with BS 8007: Design of Concrete Structures for Retaining Aqueous Liquids and documented guidance from the EPA entitled Storage and Transfer of Materials for Scheduled Activities.

The test was carried out in two stages, firstly to inspect the bund visually for cracks, weak spots or if the bund required any remedial work. The integrity of the bund was then tested for water tightness over a 6 hour period. The reduced timeframe from the BS 8007 standard for testing was applied as the bunds were in use and were required for the operation of the site.

Bunds which could not be tested hydrostatically were visually inspected.

2.0 Licence Conditions

The following conditions have been taken from the current licence applicable to this site:

4.7.1 The licensee shall provide and maintain a bunded fuel storage area at the facility. Unless otherwise agreed with the Agency the location of the fuel storage area shall be as shown in Drawing No. 2000-017-10-02 Rev. A received by the Agency on 16th May 2000. Surface water drainage from the fuel dispensing area of this tank, unless contained within the bund, shall be directed through an oil interceptor. On construction of the bunded fuel storage area fuel shall not be stored at any other locations within the facility unless otherwise agreed with the Agency.

4.7.2 All tank and drum storage areas shall be rendered impervious to the materials stored therein. In addition, tank and drum storage areas shall, as a minimum be bunded, either locally or remotely, to a volume not less than the greater of the following:

a) 110% of the capacity of the largest tank or drum within the bunded area; or
b) 25% of the total volume of substance which could be stored within the bunded area.

4.7.3 All drainage from bunded areas shall be diverted for collection and safe disposal.

4.7.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.

3.0 Summary of Methodology

A visual inspection was carried out on the bund to determine if there were any cracks, fissures or unacceptable surface continuity between the bund walls.

Where applicable the hydrostatic test was completed by filling the bund to a fill level using clean water, in line with the procedure outlined in BS8007:1987. Liquid levels were allowed to stabilise for 24 hours. After stabilisation a depth reading was recorded and marked at a preset suitable location. The water level was re-recorded after remaining in the bund for 6 hours.

A water level meter was placed in situ to determine the impact of rainfall and evaporation in the bund. When this statistic was accounted for the bund was verified as passed or failed in line with the criteria set out in the standard.

4.0 Summary of Results

Bund Identity	Pass / Fail	Comments
Diesel tank Bunk	Pass	This bund passed the visual inspection. This bund also passed the Hydrostatic Integrity test and had sufficient storage volume to meet the licence requirements

Diesel Tank Storage

Company	Kerry County Council	**IPPC Reference No**	WL0086-01
Site	Kenmare Waste transfer Station	**IPPC Category**	Waste transfer station
Bund Reference No	N/A	**Bund Type: Local/ Remote / Combined**	Local
Bund Location	Diesel Tank Storage	**Bund Risk Classification: 1, 2, 3**	2
Bund Dimensions (mm)	2345 x2590 x 541	**Primary Vessel Material**	Plastic tank
Bund Materials of Construction	Reinforced Concrete walls and concrete floors	**Primary Vessel Storage Volume**	1.476 m^3
Bund Lining materials	N/A	**Primary Vessel 110% Largest Vessel**	1.624 m^3
Bund Retention Volume (local/ Remote)	3.285 m^3	**Primary Vessel 25% Total Volume**	396 m^3
Practical to Conduct Hydrostatic Test	Yes	**Date of Visual Inspection**	29-01-2016

Visual Description:

Visual inspection was carried out on the walls, joints and floor both internally and externally. The walls and floors were deemed acceptable and therefore the bund passed through to the hydrostatic test. Water was filled to a height of 414mm. There were no cracks, fissures or weak spots identified throughout the bund structure.

Date Bunds Filled	28-01-2016	**Date of Hydrostatic Test**	29-01-2016
Start Time	08:45	**End Time**	14:45
Start Level of Water	414mm	**End of Test Level of Water**	414 mm
Recommendations	N/a		
Notes	Low Risk - WGK 0 or 1 High Risk – WGK 2 or 3 R45, R46, R50, R51, R52, R53, R54, R55, R56, R58, R61, R63		

Signed: *Jer Moore*
Date: 29-01-2016

Appendix IV – Noise Report

ISSUE FORM	
Project number	16490
Document number	6003
Document revision	A
Document title	Noise Survey
Document status	Draft
Document prepared by	Peter Barry
Document checked by	MR (MWP) / 2016-02-16

Table of contents

List of appendices

1 INTRODUCTION

Kerry County Council operates a waste transfer station in Claddanure West, near Kenmare. The facility operates within the conditions set out in the waster licence register number W0086-1. Under the terms of this licence the facility is required to carry out an annual environmental noise survey. The results of this survey are described below.

2 METHODOLOGY

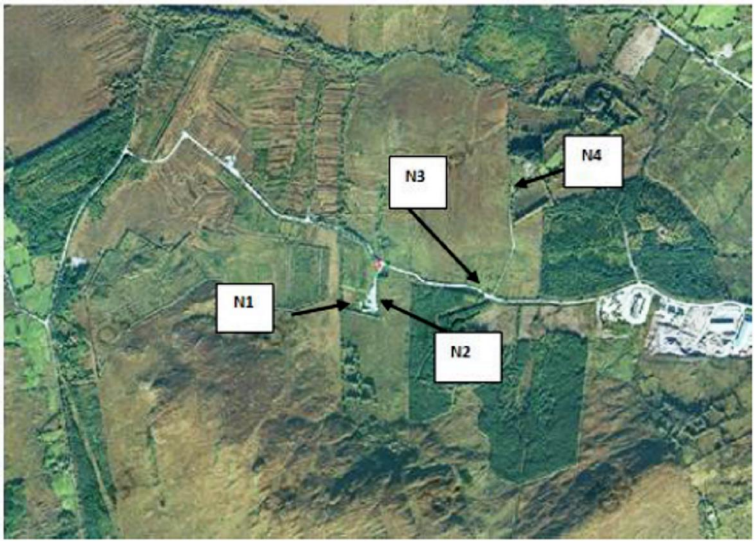
2.1 MONITORING PERIODS

The survey was carried out in accordance with the EPA guidance document, EPA guidance note 4- Guidance Note for Noise: Licence Applications, Surveys and Assessments in relation to Scheduled Activities. In accordance with the guidance note the noise surveys were carried out over three monitoring periods during the normal daytime operating times. Monitoring was undertaken for 30 minutes at each location. Noise monitoring was undertaken by Peter Barry (AMIOA) of Malachy Walsh and Partners on the 20th January 2015.

2.2 MONITORING LOCATIONS

Monitoring was undertaken at N1, N2, N3 and N4. The locations are shown on Figure 1.

Figure1: NOISE MONITORING LOCATIONS



2.2.1 Noise Monitoring Location Photographs

Location B1	Location B2
	
Location B3	**Location B4**
	

2.3 SURVEY EQUIPMENT

The measurements were made using a Bruel & Kjaer type 2250 Light and a Larson Davis 820 Logging integrating Sound Level Meter. These are Type 1 instruments in accordance with IEC 651 regulations. The Time Weighting used was Fast and the Frequency Weighting was A-weighted as per IEC 651. The sound level meters (SLM) were mounted on a tripod at 1.5m above ground level and at least 2m away from any sound reflecting objects. A windshield was placed on the microphone to reduce any wind interference during measurements.

Factory calibration certificates for the noise level meter and acoustic calibrator, detailing equipment serial numbers, calibration traceability and re-calibration dates are attached as Appendix A.

2.4 MEASUREMENT PARAMETERS

In order to be able to interpret the noise levels correctly several parameters were measured. These include the;

- L_{Aeq} Time-averaged A weighted noise level.
- L_{A90} Noise level exceeded for 90 % of measurement period (steady underlying noise level).
- L_{A10} Noise level exceeded for 10 % of measurement period.

A subjective analysis for the presence of tones and impulsive noise was also undertaken at each location.

2.5 METEOROLOGICAL CONDITIONS

Meteorological conditions were noted as showery, cold, with light winds generally not exceeding 5 meters per second (ms^{-1}). It is recommended that outdoor noise monitoring is not undertaken in adverse weather conditions as the wind or rain can elevate the readings. Ideally there should be no rain and wind speeds should generally not exceed 5 ms^{-1}.

3 NOISE SOURCES

The main noise sources at this facility include:

- A tipping shed where costumers tip rubbish from cars and trailers. The rubbish is deposited into a compaction area and is compacted and a container filled for removal off site. This tipping shed has a motor which operates the compactor. The tipping shed is not in continuous operation, rather infrequently as needed.
- A cardboard compactor.
- Customer's vehicles entering and exiting the facility.
- Customers using the various recycling and waste skips and areas.

4 RESULTS

Table 1. Noise Monitoring Results

Location	Date and Time	L_{Aeq} dB	L_{A10} dB	L_{A90} dB	Tones	Description of Noise Sources
B1 (boundary location, west)	14:07-14:37	55	52	31	No	The main contributing noise sources at this location included customers using facility, the tipping shed in operation and the cardboard compactor.
	14:37-15:07	58	61	38		
	15:07-15:37	49	49	37		
B2 (at weighbridge)	11:30-12:00	54	55	37	No	The main contributing noise sources at this location included customers using facility, the tipping shed in operation and occasional customer's cars. HGVs passing on the adjacent local road also contributed.
	12:00-12:30	48	52	38		
	12:30-13:00	50	53	33		
B3 (off site at forestry gates)	13:00:13:30	51	48	34	No	No noise from the waste transfer station was audible at this location. Local traffic on the adjacent third class road and birdsong were the main contributors to the noise level at this location.
	13:30-14:00	53	50	35		
	14:00-14:30	51	48	32		
B4 (entrance to nearest dwelling north east of the facility)	14:35-15:05	50	46	33	No	No noise from the waste transfer station was audible at this location with the exception of faint breaking glass noise from bottle bank. Wind borne noise and background traffic noise from the local third class road were the main contributing noise sources at this location.
	15:05 – 15:35	51	46	35		
	15:35 -16:05	49	47	36		

It was not possible to get a full 30 minutes monitoring per rotation at B3 and B4, the measurements averaged approximately 15 minutes per rotation, due to frequent heavy showers. However a subjective analysis of the ambient noise during the survey period indicated with confidence that noise levels would not have changed significantly over a 30 minute period and that noise from the waste transfer station did not contribute significantly to the ambient noise levels at these locations.

5 CONCLUSION

An analysis of the results, combined with on site observations indicates that the Kenmare Waste Transfer Station is not a noise nuisance and complies with the noise limit criteria set out in the waste licence. The background noise level ranged from 31 to 38 L_{90}dB (A) which demonstrates the quiet rural nature of the area. The measured noise level of L_{Aeq} 49 dB to L_{Aeq} 53 dB is below the noise limit of 55db(A) at the off site locations. A noise level of 58dB (A) was measured at B1. This can be attributed to vehicles idling at the nearby recycling area.

No distinct tones were noted at any location. At the boundary locations there were occasional impact noises from waste material being dropped into skips and bins, however this impulsive noise would not cause disturbance or annoyance at any off site location and does not warrant a penalty. No tones or significant impact noise were audible off site.

Kenmare Waste Transfer Station is operating within the waste licence noise emission criteria.

Appendix 1
Calibration Certificates

PCB PIEZOTRONICS
A PCB GROUP COMPANY

Certificate of Calibration and Conformance

Certificate Number 2014-189699

Instrument Model PRM828, Serial Number 2952, was calibrated on 16 Apr 2014. The instrument meets factory specifications per Procedure D0001.8135.

New Instrument
Date Calibrated: 16 Apr 2014
Calibration due:

Calibration Standards Used

MANUFACTURER	MODEL	SERIAL NUMBER	INTERVAL	CAL. DUE	TRACEABILITY NO.
Agilent Technologies	34401A	MY41044529	12 Months	4 Feb 2015	6396720
Larson Davis	LDSigGn/2209	0277 / 0109	12 Months	12 Mar 2015	2014-187602

Reference Standards are traceable to the National Institute of Standards and Technology (NIST)

Calibration Environmental Conditions

Temperature: 23 ° Centigrade

Relative Humidity: 50 %

Affirmations

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the U.S. National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at Provo Engineering & Manufacturing Center. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

The collective uncertainty of the Measurement Standard used does not exceed 25% of the applicable tolerance for each characteristic calibrated unless otherwise noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. A one year calibration is recommended, however calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of the issuer.

Signed: Ron Harris

Technician: Ron Harris

Provo Engineering and Manufacturing Center, 1681 West 820 North, Provo, Utah 84601
Toll Free: 888.258.3222 Telephone: 716.926.8243 Fax: 716.926.8215
ISO 9001-2008 Certified

PCB PIEZOTRONICS
A PCB GROUP COMPANY

Certificate of Calibration and Conformance

Certificate Number 2014-189710

Instrument Model 820, Serial Number 1915, was calibrated on 16 Apr 2014. The instrument meets factory specifications per Procedure D0001.8160, ANSI S1.4 1983, IEC 651-Type 1 1979, and IEC 804-Type 1 1985.

New Instrument
Date Calibrated: 16 Apr 2014
Calibration due:

Calibration Standards Used

MANUFACTURER	MODEL	SERIAL NUMBER	INTERVAL	CAL. DUE	TRACEABILITY NO.
Larson Davis	LDSigGrv2209	0277 / 0109	12 Months	12 Mar 2015	2014-187602

Reference Standards are traceable to the National Institute of Standards and Technology (NIST)

Calibration Environmental Conditions

Temperature: 23 ° Centigrade

Relative Humidity: 50 %

Affirmations

This Certificate attests that this instrument has been calibrated under the stated conditions with Measurement and Test Equipment (M&TE) Standards traceable to the U.S. National Institute of Standards and Technology (NIST). All of the Measurement Standards have been calibrated to their manufacturers' specified accuracy / uncertainty. Evidence of traceability and accuracy is on file at Provo Engineering & Manufacturing Center. An acceptable accuracy ratio between the Standard(s) and the item calibrated has been maintained. This instrument meets or exceeds the manufacturer's published specification unless noted.

The collective uncertainty of the Measurement Standard used does not exceed 25% of the applicable tolerance for each characteristic calibrated unless otherwise noted.

The results documented in this certificate relate only to the item(s) calibrated or tested. A one year calibration is recommended, however calibration interval assignment and adjustment are the responsibility of the end user. This certificate may not be reproduced, except in full, without the written approval of the issuer.

Tested with PRM828-2952

Signed: Ron Harris
Technician: Ron Harris

Provo Engineering and Manufacturing Center, 1681 West 820 North, Provo, Utah 84601
Toll Free: 888.258.3222 Telephone: 716.926.8243 Fax: 716.926.8215
ISO 9001:2008 Certified

NSAI
National Metrology Laboratory

Certificate of Calibration

Issued to	Malachy Walsh & Partners Reen Point Blennerville Tralee, Co Kerry
Attention of	Peter Barry

Certificate Number	**E13011B**
Item Calibrated	Bruel & Kjaer Type 2250 "Light"Sound Level Meter and 4950 Microphone
Serial Number	2654709 and 2657422 (microphone)
Client ID Number	---------
Order Number	MWP130108
Date Received	09 Jan 2013
NML Procedure Number	AP-NM-09
Method	The above sound level meter was allowed to stabilise for a suitable period in laboratory conditions. The verification checks performed are those outlined in BS7580:Pt 1 (1997), *Specification for the verification of sound level meters*. This British Standard specifies a procedure for the periodic verification of conformance of a sound level meter or integrating-averaging meter to IEC60651 (1994) and IEC60804 (2000), respectively. Prior to calibration the instrument was tested, and its overall sensitivity adjusted in accordance with Clause 5.4 of BS 7580. Pt 1 using its associated sound level calibrator.
Calibration Standards	Norsonic 1504A Calibration System Incorporating: SR DS360 Signal Generator, No. 0735, [Cal. Due Date: 17 Jul 2013] Agilent 34401A Digital Multimeter, No. 0736 [Cal Due Date: 11 Jul 2013] B&K 4134 Measuring Microphone, No. 0743 [Cal Due Date: 17 Apr 2014] B&K 4228 Pistonphone, No. 0740 [Cal. Due Date: 08 Aug 2014] B&K 4226 Acoustical Calibrator, No. 0150, [Cal. Due Date: 30 Oct 2013]

Calibrated by	Oliver Power	**Approved by**	Paul Hetherington
Date of Calibration	16 Jan 2013	**Date of Issue**	16 Jan 2013

CIPM MRA

This certificate is consistent with Calibration and Measurement Capabilities (CMC's) that are included in Appendix C of the Mutual Recognition Arrangement (MRA) drawn up by the International Committee for Weights and Measures. Under the MRA, all participating institutes recognize the validity of each other's calibration certificates and measurement reports for quantities, ranges and measurement uncertainties specified in Appendix C (for details see www.bipm.org)

Glas Nalon | Baile Átha Cliath 11 | Eire
Glasnevin | Dublin 11 | Ireland T+ 353 1 808 2609 | F+353 1 808 2803 | NSAI.ie

NSAI
National Metrology Laboratory

Certificate of Calibration

Issued to	Calmet Limited 1E Three Rock Road Sandyford Industrial Estate Dublin 18
Attention of	Gerry Segrave

Certificate Number	**E14202**
Item Calibrated	Bruel & Kjaer Type 4231 Sound Level Calibrator
Serial Number	2665058
Client ID Number	.....
Order Number	71135
Date Received	10 Apr 2014
NML Procedure Number	AP-NM-13
Method	The above calibrator was allowed to stabilize for a suitable period in laboratory conditions. It was then calibrated by measuring the sound pressure level generated in its measuring cavity (half-inch configuration). The calibrator's operating frequency was also measured.
Calibration Standards	Norsonic 1504A Calibration System incorporating: Agilent 34401A Multimeter, No. 0736 [Cal due date: 10 Jul 2014] B & K 4134 Measuring Microphone, No. 0743 [Cal due date: 23 Jan 2015] B & K 4228 Pistonphone, No. 0740 [Cal due: 23 Jan 2015]

Calibrated by	Sam Boles	**Approved by**	Paul Hetherington
Date of Calibration	14 Apr 2014	**Date of Issue**	22 Apr 2014

CIPM MRA

This certificate is consistent with Calibration and Measurement Capabilities (CMC's) that are included in Appendix C of the Mutual Recognition Arrangement (MRA) drawn up by the International Committee for Weights and Measures. Under the MRA, all participating institutes recognize the validity of each other's calibration certificates and measurement reports for quantities, ranges and measurement uncertainties specified in Appendix C (for details see www.bipm.org)

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Glasnevin | Dublin 11 | Ireland T+ 353 1 808 2609 | F+353 1 808 2603 | NSAI.ie

Appendix 2

Glossary of Noise Related Terms

Ambient Noise
Totally encompassing sound in a given situation at a given time usually composed of a sound from many sources near and far.

Background noise level
The A-weighted sound pressure level of the residual noise at the assessment position that is exceeded for 90% of a given time interval, T measured using time weighting F, and quoted to the nearest whole number of decibels.

EPA

Day:	Night:
0800 hrs to 2200 hrs	2200 hrs to 0800 hrs

Decibel (dB)
The unit of sound pressure level, calculated as a logarithm of the intensity of sound. 0 dB is the threshold of hearing, 140 dB is the threshold of pain. A change of 1 dB is detectable only under laboratory conditions. A change of 10 dB corresponds approximately to halving or doubling the loudness of sound.

dB(A)
Decibels measured on a sound level meter incorporating a frequency weighting (A weighting) which differentiates between sound of different frequency (pitch) in a similar way to the human ear. Measurements in dB(A) broadly agree with peoples assessment of loudness.

Hertz (Hz)
Unit of frequency (pitch) of a sound

Impulsive Noise
A noise which is of short duration (typically less than one second), the sound pressure level of which is significantly higher than the background

1/3 Octave band analysis
Frequency analysis of sound such that the frequency spectrum is sub divided into bands of one third of an octave each. An octave is taken to be the frequency interval, the upper limit of which is twice the lower limit (in Hertz).

LAeq
Equivalent Continuous A-weighted Sound Level. The continuous steady noise level, which would have the same total A-weighted acoustic energy as the real fluctuating noise measured over the same period of time.

$L(A)_{10}$
The noise level that is equaled or exceeded for 10% of the measurement period

$L(A)_{90}$
The noise level that is equaled or exceeded for 90% of the measurement period

Noise

Unwanted sound. Any sound which has the potential to cause disturbance, discomfort or psychological stress to a subject exposed to it, or any sound which has the potential to cause actual physiological harm to a subject exposed to it or physical damage to any structure exposed to it, is known as noise

Noise Sensitive Receptor

A noise sensitive receptor is regarded as any dwelling house, hotel or hostel, health building, educational establishment, places of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels

Rating level $L_{Ar,Tr}$

The specific noise level plus any adjustment for the characteristic features of the noise

Residual Noise

The ambient noise remaining at a given position in a given situation when the specific noise source is suppressed to a degree such that it does not contribute to the ambient noise

Sound Power

The energy output from a source. It is measured in Watts (W)

Specific Noise Source

The noise source under investigation for assessing the likelihood of complaints

Tone

A noise with a narrow frequency composition

Appendix V - AER/PRTR Return 2014

Environmental Protection Agency

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.18

REFERENCE YEAR	2014

1. FACILITY IDENTIFICATION

Parent Company Name	Kerry County Council
Facility Name	Kenmare Transfer Station
PRTR Identification Number	W0086
Licence Number	W0086-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Claddanure West
Address 2	Kenmare
Address 3	
Address 4	
	Kerry
Country	Ireland
Coordinates of Location	-9.8227 51.9012
River Basin District	IESW
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Tara O'Carroll
AER Returns Contact Email Address	tara.ocarroll@kerrycoco.ie
AER Returns Contact Position	Assistant Engineer
AER Returns Contact Telephone Number	0667162000
AER Returns Contact Mobile Phone Number	0879129535
AER Returns Contact Fax Number	0667162001
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	2184
Number of Employees	1
User Feedback/Comments	20 03 01 is split between NKL W0001 disposal and KWD recycling W0217. recovery Cardboard divided between Greenstar Jan - June and Dillon Waste July - Dec. Comparison to 2013 return 13 02 04 -0.9t
Web Address	www.kerrycoco.ie

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 ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

0

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	20 03 01	No	440.66	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	North Kerry Landfill ,W001-04	Muingnaminnane,,,Tralee,County Kerry,Ireland		
Within the Country	20 03 01	No	379.3	mixed municipal waste	R3	M	Weighed	Offsite in Ireland	Killarney Waste Disposal,W0217-01	Aughacureen,,,Killarney,County Kerry,Ireland		
Within the Country	15 01 06	No	11.48	mixed packaging	R3	M	Weighed	Offsite in Ireland	Killarney Waste Disposal,W0217-01	Aughacureen,,,Killarney,County Kerry,Ireland		
Within the Country	15 01 01	No	10.32	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Greenstar,WFP-CK-10-0047-02	Sarsfield Court Industrial Estate,,,Glanmire,County Cork,Ireland		
Within the Country	15 01 01	No	12.16	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	20 01 01	No	88.12	paper and cardboard	R3	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	15 01 07	No	63.853	glass packaging	R5	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	15 01 04	No	7.045	metallic packaging	R4	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	20 01 40	No	49.7	metals	R4	M	Weighed	Offsite in Ireland	United Metals,WFP-LK-2013-147A-R1	Eastway Business Pk,Ballysimon Rd,Limerick,,,Ireland		
Within the Country	15 01 02	No	42.325	plastic packaging	R3	M	Weighed	Offsite in Ireland	Dillon Waste,WFP/KY/10/0001/01	The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	20 01 11	No	0.54	textiles	R3	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,WFP-014/2	Belgard Road,Tallagh,Dublin24,,,Ireland		
Within the Country	20 01 34	No	2.916	batteries and accumulators other than those mentioned in 20 01 33	R4	M	Weighed	Offsite in Ireland	Enva,W0184-1	Clonminam Industrial Estate,,,Portlaoise,County Laois,Ireland		
Within the Country	13 02 08	Yes	0.36	other engine, gear and lubricating oils	R1	M	Weighed	Offsite in Ireland	Enva,W0184-1	Clonminam Industrial Estate,,,Portlaoise,County Laois,Ireland	ENVA Ireland,W0184-01,Clonminam,Portlaoise,Co Laois, ,Ireland	Clonminam,Portlaoise,Co Laois, ,Ireland
To Other Countries	20 01 21	Yes	0.355	fluorescent tubes and other mercury-containing waste	R5	M	Weighed	Abroad	KMK Metals,W0113-01	Cappincur Industrial estate,,,Tullamore,County Offaly,Ireland	Alba Service GmbH & Co. KG,E56657020,Kanalstrasse 64,,,Rheine,48432,Germany	Kanalstrasse 64,,,Rheine,48432,Germany
Within the Country	20 01 35	Yes	14.866	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components	R4	M	Weighed	Offsite in Ireland	Eletrical Waste Management,WFP-DS-11-0014-04	Block 648,Jordanstown Drive,Greenogue Ind Est,Dublin,Ireland	The Recycling Village,WFP/LH/10/W010/01,,,,Monasterboise,County Louth,Ireland	,,,Monasterboise,County Louth,Ireland
To Other Countries	20 01 35	Yes	24.187	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components	R4	M	Weighed	Abroad	Eletrical Waste Management,WFP-DS-11-0014-04	Block 648,Jordanstown Drive,Greenogue Ind Est,Dublin,Ireland	European Metal Recycling,WML 101757,Alexander Dock 1,Bootle ,Liverpool,L201BX,United Kingdom	Alexander Dock 1,Bootle ,Liverpool,L201BX,United Kingdom
To Other Countries	16 02 14	No	21.335	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	R4	M	Weighed	Abroad	Eletrical Waste Management,WFP-DS-11-0014-04	Block 648,Jordanstown Drive,Greenogue Ind Est,Dublin,Ireland		
To Other Countries	16 02 11	Yes	11.355	discarded equipment containing chlorofluorocarbons, HCFC, HFC	R4	M	Weighed	Abroad	Eletrical Waste Management,WFP-DS-11-0014-04	Block 648,Jordanstown Drive,Greenogue Ind Est,Dublin,Ireland	European Metal Recycling,WML 101757,Alexander Dock 1,Bootle ,Liverpool,L201BX,United Kingdom	Alexander Dock 1,Bootle ,Liverpool,L201BX,United Kingdom
Within the Country	19 07 03	No	2.42	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Kenmare Waste Water Treatement Plant,Irish Water	Kenmare Waste Water Treatement Plant,Kenmare,Co Kerry,,,Ireland		