

Kerry County Council



Waste Licence Ref No. W0069-01

REPORT TITLE

**Milltown Transfer Station
Annual Environmental Report**

Reporting Period:

January – December 2013

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1.0 Introduction

Kerry County Council operates a waste transfer and recycling facility at Ballyvirrane, Milltown, Co. Kerry. It is located approximately 2 km south of the town of Milltown.

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.

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 C of Waste Licence W0069-01 issued by the Environmental Protection Agency (EPA).

2.0 Reporting Period

The reporting period for this Annual Environmental Report is 1st January– 31st December 2013.

3.0 Waste Activities Carried out at the Facility

Waste disposal activities carried out at Milltown Transfer Station are in accordance with Part 1 of Waste Licence W0069-01 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 Milltown Transfer Station are in accordance with Part 1 of Waste Licence W0069-01 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 2013

Waste tonnage disposed at Milltown Transfer Station during the reporting year (2013) decreased by 7% on the previous year (2012). This is primarily due the reduction of 111 tonnes in the quantity of waste being disposed of by members of the public.

The weight of the waste accepted into Milltown Transfer Station Facility for disposal for the reporting period was 1,376.96 tonnes. This comprises of the following breakdown:

Waste Source	EWC	2012	2013
Public Household	20 03 01	1,237.7	1,138.20
Commercial	20 03 01	120.58	109.18
Local Authority Refuse Collection	20 03 01	3.82	0
Road Sweeping/ Flytipping/Graveyard Waste	20 03 03 20 02 03	125.60	129.58
Total	tonnes	1,487.70	1,376.96

Table 1 Waste Source breakdown for reporting Period.

The quantity of waste sent for recycling in 2013 was 657.98 tonnes this is an increase of 87 tonnes on 2012 figure. Waste sent for recycling during the reporting period compared with previous years is outlined in Table 2.

Waste for Recycling & Recovery	EWC	2012	2013
Food Waste	20 01 08	4.76	6.98
Metals	20 01 40	48.12	49.52
Steel Cans	15 01 04	8.89	12.45
Glass	15 01 07	74.71	92.62
Aluminium	15 01 04	2.57	3.66
Batteries	20 01 34	1.2	2.22
Newspapers and Magazines	20 01 01	152.5	162.3
Cardboard	15 01 01	94.22	102.88
Fluorescent Tubes	20 01 21	0.82	1.12
Plastic Bottles	15 01 02	42.72	53.16
WEEE	Various	95.77	118.23
Mixed Packaging	15 01 06	46.64	52.16
Cooking Oil	20 01 25	0.11	0.17
Textiles	20 01 11	0.84	1.64
Total for Recycling/Recovery	tonnes	573.87	657.98

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

It is expected that waste disposal rates and recycling/recovery rates at Milltown Transfer Station will continue remain unchanged in the next reporting period.

6.0 Summary Report on Emissions for the Reporting Period

a) Foul Water Emissions

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 Milltown facility and Environmental Services Office.

Cleaning out and a service of the wastewater treatment system is scheduled for Q2 2014.

b) Surface Water Emissions

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

Surface water and foul water emission results are attached in Appendix II.

7.0 Summary of Results and Interpretations of Environmental Monitoring

a) Dust monitoring

The dust monitoring results for the reporting period are attached in Appendix III. Dust samples were within the allowable dust deposition limits as per Schedule G of Waste Licence W0069. No complaints were received in relation to dust at the facility.

Licence Ref	Site Ref	Total Particles mg/m²/day	Inorganic Particles mg/m²/day	Licensed Limit mg/m²/day
B1	Station 1	343	150	350
B2	Station 2	110	46	350
SW2	Station 3	83	32	350

Table 3 Dust Monitoring Results Milltown Waste Transfer Station 2013.

It is Kerry County Council's intension to seek a technical amendment in 2014, in relation to the dust monitoring requirement of Waste Licence W0069 as past monitoring indicates that the site it not causing excessive dust to the surrounding environs.

b) Noise monitoring

Environmental Efficiency Consultant Engineers carried out noise monitoring at Milltown Waste Transfer Station. The noise survey, was carried out in accordance with EPA NG4 was undertaken on the 11/12/2013. Noise levels recorded at Noise Sensitive Locations are determined to be below emission limit values. The site is therefore compliant as regard noise levels. Table 4 provides summary of noise. Completed Noise Monitoring report is attached in Appendix IV.

It is Kerry County Council's intention to seek a technical amendment in relation to the noise monitoring requirement of Waste Licence W0069 as past monitoring indicates that the site is not causing excessive noise to the surrounding environs.

c) Monitoring of surface water

The surface water monitoring results are attached in Appendix II.

Please note that there were elevated suspended solids at waste sampling location Sw2 and SW3a. Investigation into the reason why suspended solids were elevated at these locations found that these were due to stagnant water with no flow, sediment in the location was disturbed at time of sampling which has led to a high suspended solid count.

Elevated Total and Faecal Coliforms levels were experienced on all samples SW2/SW3a/SW3c/SW4b on the 9/1/2013. Investigation of these elevated levels it was found that these were as a result of manure spreading on the capped landfill which is now used for agricultural use.

The sampling of the Keelbroggen Stream into which run off from the historic landfill eventually flows have indicated that the river is polluted. Sampling of locations along the river has indicated that the majority of this pollution is due to agricultural activities in the area. As part of the investigation into this pollution, sampling has recommenced at SW8 and up stream of SW8, elevated ammonia levels have been detected here, investigation is ongoing to see if historic landfill activities is adding to the pollutant load.

d) Foul Water

The foul water emissions results are attached in Appendix II. There were no emission limits exceeded during the reporting period however, the samples taken at the outfall in Q4 2013 were cloudy, servicing of the treatment system and emptying of the tank will take place in early 2014 to eliminate this problem.

e) Bund and Tank Integrity Test

No bund and tank testing was carried out in 2013, this will be carried out in 2014 and the result of same will be forwarded to the Agency for its consideration.

Location	Run	Date Time	Laeq,T	LAF90	LAF10	LAFMax	Rated Noise Lar,T	Description of On-Site Noise	Description of Off-Site Noise	Compliant
B1	1	11/12/2013 14:39	51.0	44.00	56.00	83.00	44.00	Cars and Vans Entering and Leaving the facility	Wind Blowing Trees	n/a
B2	1	11/12/2013 14:05	50.0	43.00	58.00	78.00	3.00	Cars and Vans Entering and Leaving the facility	Wind Blowing Trees	n/a
B3	1	11/12/2013 12:39	51.00	40.00	55.00	72.00	40.00	Cars and Vans Entering and Leaving the facility and people using bring bank	Wind Blowing Trees	n/a
B4 - NSL	1	11/12/2013 14:58	49.00	41.00	56.00	80.00	41.00	Cars and Vans Entering and Leaving the facility	Wind Blowing Trees. Dog Barking	Yes
	2	11/12/2013 15:28	51.00	46.00	55.00	79.00	46.00	Cars and Vans Entering and Leaving the facility	Wind Blowing Trees. Dog Barking	Yes
	3	11/12/2013 15:58	50.00	43.00	54.00	78.00	43.00	Cars and Vans Entering and Leaving the facility	Wind Blowing Trees. Dog Barking	Yes
B5 - NSL	1	11/12/2013 15:31	58.00	49.00	58.00	78.00	49.00	Noise from Facility not audible	Traffic along road. Strimming. Wind blowing trees	Yes
	2	11/12/2013 16:01	65.00	46.00	64.00	95.00	46.00	Noise from Facility not audible	Traffic along road. Strimming. Wind blowing trees	Yes
	3	11/12/2013 16:31	64.00	46.00	62.00	86.00	46.00	Noise from Facility not audible	Traffic along road. Strimming. Wind blowing trees	Yes

Table 4 Daytime Noise Monitoring Results Milltown Waste Transfer Station 2013.

8.0 Resource and Energy Consumption Summary

The following is the resource and energy consumption for Milltown Transfer Station for the reporting period.

8.1 Diesel

The diesel usage for Milltown Transfer Station for the reporting period 2013 was 1,368 litres. This is reduction of 1,332 litres which is primarily due to reduced activity on site. The primary usage of diesel is for the excavator on site.

8.2 Electricity

Electricity usage on site has increased by 1kWh/day; however, the electricity usage on site in general has reduced significantly since 2009.

Year	Average Electricity Usage kWh/day
2013	26
2012	25
2011	31
2010	38
2009	42

Table 5 Average Electricity Usage 2009 – 2013 kWh/day

The primary energy consumer on site is a 3 phase waste compactor. Power is also required for the office computer and lighting, storage heating, cardboard baler 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 24 m³; this is a reduction of 5m³. Water is used on site for power washing yards, the transfer station apron and hopper. No surface water or ground water is abstracted for use on site.

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 Proposed Development Works for the Forthcoming Year

No development works are proposed at the facility during 2014.

11.0 Environmental Management System

There is an Environmental Management System on site. This system is due for review and changes to work practices on site will be reflected in the review of the document. Once the review is complete a copy will be forwarded to the Agency for its consideration.

12.0 Report on Progress toward achieved of the 2013 Environmental Objectives and Targets and Environmental Objectives and Targets for 2014.

Target Area	2013 - Objective	2013 - Achievement	2014 - Objective
Surface Water Emissions	Keep surface water emissions from the site with the licenced limits	Raised Faecal Cloiforms sampled in Jan 2013. Investigation into possible cause carried out. Regular inspection of water drains carried out. Regular inspection of bunds carried out. Quarterly monitoring of surface water monitoring points carried out	Ensure that any raised emissions are dealt with in a timely manner, cause identified and were possible and practicable eliminated. Formalise the inspection of water drains. Formalise the inspection of bunds. Forward quarterly monitoring to Agency within timescale in licence.
Litter on public access roads to facility	Reduce the waste from lost loads on access roads to facilities	Regular litter monitoring carried out by on site staff	Continue regular litter patrols.
Energy Resources	Reduce the quantity of diesel and electricity used on site	Maintained electricity consumption level on site. Reduced diesel consumption on site.	Continue to maintain electricity consumption level on site. Continue to maintain diesel consumption on site.
Waste Records	Introduce new computer system to record waste transactions.	System in place and database connection back to KCC HQ.	Maintain database.

13.0 Summary of Procedures Developed by the Licensee

The following procedures were developed during the reporting period:

- Revised Operational Procedures for Facility Operator
- Revised Health & Safety Procedures

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 at Facility

Accelem	Accelem(T)	Total Charge Euro
60030	Wages	€ 30,823.76
60040	Salaries	€ 4,919.83
60100	ER PRSI	€ 7,136.36
60200	Overtime	€ 24,335.90
60500	Annual Leave	€ 6,455.96
60510	Bank Holiday Leave	€ 1,475.65
60600	Travel/Subsistence	€ 3,756.54
61990	Other Allowances	€ 1,651.38
65500	Minor Contracts- Trade Services & other works	€ 33,926.30
68500	Non-Capital Equip Purchase - Other	€ 123.56
69000	Hire (Ext) - Plant/Transport/Machinery & Equipment	€ 210.00
69200	Repairs & Maint - Plant	€ 900.63
69250	Repairs & Maint -Computer Equip	€ -
69400	Transfers from Machinery Yard	€ 2,272.00
69600	Other Vehicle Expenses	€ 102.00
70000	Materials	€ 1,375.07
70990	Issues from Stores	€ 3,141.53
73400	Staff Travelling & Subsistence Expenses	€ 1,708.89
75000	Computer Software and Maintenance Fees	€ -
76000	Communication Expenses	€ 573.42
77100	Courier	€ -
77200	Security - Property	€ 608.00
78000	Training	€ -
79900	Consultancy/Professional Fees and Expenses	€ 42.00
80000	Advertising	€ 443.75
81000	Printing & Office Consumables	€ 23.19
82100	Statutory Contributions to Other Bodies	€ 9,505.30
85100	Rates & Other LA Charges	€ 95.84
86000	Energy	€ 1,694.82
	Total	€ 137,301.68

b) Statement of Costs for Recycling Operations at Facility

Accelem	Accelem(T)	Total Charge Euro
60030	Wages	€ 7,705.22
60100	ER PRSI	€ 1,743.70
60200	Overtime	€ 6,105.43
60500	Annual Leave	€ 2,280.55
60510	Bank Holiday Leave	€ 536.60
60600	Travel/Subsistence	€ 918.57
61990	Other Allowances	€ 366.03
65500	Minor Contracts- Trade Services & other works	€ 9,593.64
68500	Non-Capital Equip Purchase - Other	€ 59.22
69200	Repairs & Maint - Plant	€ 44.99
69250	Repairs & Maint -Computer Equip	€ -
70000	Materials	€ 597.82
70990	Issues from Stores	€ 95.07
73400	Staff Travelling & Subsistence Expenses	€ 2,064.88
75000	Computer Software and Maintenance Fees	€ -
76000	Communication Expenses	€ 196.46
77100	Courier	€ 3.00
77200	Security - Property	€ 152.00
78000	Training	€ -
79900	Consultancy/Professional Fees and Expenses	€ 18.00
80000	Advertising	€ 668.76
81000	Printing & Office Consumables	€ 10.45
82100	Statutory Contributions to Other Bodies	€ 4,073.66
85100	Rates & Other LA Charges	€ 33.19
86000	Energy	€ 579.37
99050	Refunds	€ 52.13
	Total	€ 37,898.74

16.0 Management and Staffing Structure at the Facility 2013

Kerry County Council

County Manager: Mr Tom Curran

Director of Services: Mr Oliver Ring

Senior Engineer Environmental Services:

Mr Tom Sheehy

**Senior Executive Engineer &
Facility Engineer:**

Mr John Ahern

Senior Executive Chemist:

Mr David Lenihan

**Site Manager/
Weighbridge:**

Mr Jerry Murphy

Relief Operative:

Mr Denis Lenihan

Mr John Mannix

17.0 Programme of Public Information

The following files are available for inspection 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 Milltown Transfer Station for Landfill during reporting period

								Non Levied Waste													
	KTC Refuse	Public Car Household	* Non weighed waste inclusive of tickets	A/C Holders (VAT Inclusive)	A/C Holders (VAT Exempt)	KCC Internal Depts	Total Levied Waste	KCC Road Sweeping	KTC Road Sweeping	Graveyard Waste	Clean Ups / Flipping	Total Non-levied	Total of Waste Over Weighbridge	Total Waste Out of TS	No.Loads Out of TS	Waste In @ NKL	No. Loads Into NKL	Variance	Average Variance per Load		
January 2013	0	50.54	33.84	2.66	2.3	0.68	90.02	5.4	0	0	1.74	7.14	63.32	97.12	7	97.16	7	0.04	0.01		
January 2012	0	56.4	59.66	6.92	4.16	0	127.14	6.22	0	0	1.62	7.84	75.32	134.34	10	134.98	10	0.64	0.06		
February 2013	0	45.54	50.84	5.2	4.08	1.94	107.60	4.04	0	0	2.12	6.16	62.92	113.40	8	113.76	8	0.36	0.04		
February 2012	3.82	48.54	45.08	3.9	3.3	0	104.64	5.64	0.9	0	1.42	7.96	67.52	111.96	8	112.6	8	0.64	0.08		
March 2013	0	48.26	36.8	4.04	2.42	0	91.52	4.06	0	0	1.2	5.26	59.98	96.50	7	96.78	7	0.28	0.04		
March 2012	0	54.42	44.12	4.86	3.16	0	106.56	5.34	0	0	2.54	7.88	70.32	114.2	8	114.44	8	0.24	0.03		
April 2013	0	45.38	41.94	5.26	5.88	0.00	98.46	5.04	0.00	0.00	5.72	10.76	67.28	108.9	8	109.22	8	0.32	0.04		
April 2012	0	50.18	50.70	4.78	2.28	0.12	108.06	4.76	0.00	0.00	5.92	10.68	68.04	118.62	9	118.74	9	0.12	0.01		
May 2013	0.00	53.26	57.66	6.62	2.62	0.52	120.68	3.98	0.00	0.00	2.48	6.46	69.48	126.64	9	127.14	9	0.5	0.06		
May 2012	0.00	56.78	52.74	4.54	4.78	2.12	120.96	5.22	0.00	0.00	1.44	6.66	74.88	127.18	9	127.62	9	0.44	0.05		
June 2013	0.00	55.70	34.64	4.74	5.32	0.44	100.84	4.74	0.00	0.00	9.92	14.66	80.86	115.1	8	115.5	8	0.4	0.05		
June 2012	0.00	59.26	48.04	5.98	4.34	0.40	118.02	8.70	0.00	0.00	1.62	10.32	80.3	127.98	9	128.34	9	0.36	0.04		
July 2013	0.00	52.44	52.98	9.14	3.04	0.00	117.60	2.96	0.00	0.00	10.28	13.24	77.86	130.62	9	130.84	9	0.22	0.02		
July 2012	0.00	63.94	45.14	11.26	5.32	0.00	125.66	7.06	0.00	0.00	9.08	16.14	96.66	154.62	11	141.8	10	-12.82	-1.28		
August 2013	0.00	54.26	51.18	9.20	3.20	0.42	118.26	23.06	0.00	0.00	11.98	35.04	102.12	152.88	11	153.3	11	0.42	0.04		
August 2012	0.00	59.78	46.72	8.96	6.74	0.32	122.52	4.22	0.00	0.00	26.36	30.58	106.38	156	11	153.1	11	-2.9	-0.26		
September 2013	0.00	39.70	53.94	5.76	2.74	0.14	102.28	3.40	0.00	0.00	5.02	8.42	56.76	110.4	8	110.7	8	0.3	0.04		
September 2012	0.00	55.34	48.94	6.22	2.10	1.74	114.34	4.28	0.00	0.00	6.46	10.74	76.14	109.32	8	125.08	9	15.76	1.75		
October 2013	0.00	44.00	50.74	5.36	2.06	0.56	102.72	3.50	0.00	0.00	3.24	6.74	58.72	109.3	8	109.46	8	0.16	0.02		
October 2012	0.00	46.28	52.72	3.04	4.82	0.02	106.88	5.36	0.00	0.00	0.50	5.86	60.02	112.46	8	112.74	8	0.28	0.04		
November 2013	0.00	50.34	35.88	3.72	1.18	0.28	91.40	3.86	0.00	0.00	2.64	6.50	62.02	97.5	7	97.9	7	0.4	0.06		
November 2012	0.00	44.94	41.08	5.64	1.64	0.00	93.30	4.72	0.00	0.00	1.84	6.56	58.78	99.66	7	99.86	7	0.2	0.03		
December 2013	0.000	47.704	50.636	4.04	3.62	0.00	106.00	3.80	0.00	0.00	5.40	9.20	64.564	114.76	8	115.20	8	0.44	0.055		
December 2012	0.00	49.52	57.38	3.72	3.40	0.00	114.02	3.04	0.00	0.00	1.34	4.38	61.02	118.34	9	118.4	9	0.06	0.01		
Total Tonnage 2013	0.00	587.124	551.076	65.74	38.46	4.98	1247.38	67.84	0.00	0.00	61.74	129.58	825.88	1373.12	98	1376.96	98	3.84			
Total Tonnage 2012	3.82	645.38	592.32	69.82	46.04	4.72	1362.10	64.56	0.90	0.00	60.14	125.60	895.38	1484.68	107	1487.70	107	3.02			
Grand Total																			129.58	Overall Total Average Variance Per Load	0.04

Appendix II - Results of Quarterly Foul and Surface Water Monitoring

Quarterly Surface Water Monitoring Results SW2:

							Parameter	Ammonium	pH	BOD (5day)	Conductivity @ 20 oC	Chemical Oxygen Demand	Chloride	Dissolved	Suspended Solids	Temperature	Appearance
Location	Location E	Location N	Sample Date	Sample Time	Sample M	Sampled By	Comments	NH4 mg/l	Physchem pH units	O2 mg/l	Physchem µS/cm	O2 mg/l	Cl mg/l	O2 mg/l	Physchem mg/l	Physchem Degrees C	Descriptive
Sw2	83053.4	98786	09-Jan-13	11:13	Grab	Andrew Scanlon	Very Little Flow	0.03	6.2	4.1	147	36	25	7.2	22	5.2	Clear
Sw2	83053.4	98786	09-Apr-13	11:15	Grab	Derry Bowler	Compliance				no sample- location overgrown						no flow -overgrown
Sw2	83053.4	98786	03-Jul-13	12:37	Grab	Andrew Scanlon	Water not flowing	0.52	6.5	11.3	211		30.3	4.1	49	14.6	Sediment
Sw2	83053.4	98786	03-Jul-13	12:37	Grab	Andrew Scanlon	Water not flowing	0.39	6.4	10.7	213	97	31.9	4.1	56	14.6	Sediment
Sw2	83053.4	98786	16-Oct-13	11:42	Grab	Andrew Scanlon	Stagnant	0.12	6.5	8	176	146	30.7	3.4	106	11.9	Sediment

Quarterly Surface Water Monitoring Results SW3a:

							Parameter	Ammonium	pH	BOD (5day)	Conductivity	Chemical Oxygen Demand	Chloride	Dissolved	Suspended Solids	Temperature	Faecal col	Total Colif	Appearance
Location	Location E	Location N	Sample Date	Sample Time	Sample M	Sampled By	Comments	NH4 mg/l	Physchem pH units	O2 mg/l	Physchem µS/cm	O2 mg/l	Cl mg/l	O2 mg/l	Physchem mg/l	Physchem Degrees C	FC marine no./100mls	Total Colif no./100mls	Descriptive
Sw3a	83087	98733	09-Jan-13	11:25	Grab	Andrew Scanlon	Very Little Flow	0.05	6.2	2.9	201	31	33.2	3.5	11	8.5	7170	300	Clear
Sw3a	83087	98733	09-Apr-13	11:20	Grab	Derry Bowler		0.09	6.2	> 7	207	56	31.2	7.1	70	9.2			
Sw3a	83087	98733	03-Jul-13	12:26	Grab	Andrew Scanlon	Water not flowing	0.2	6.3	11.8	207	103	29.4	3.7	53	16.2			Sediment
Sw3a	83087	98733	16-Oct-13	11:32	Grab	Andrew Scanlon	Stagnant	0.24	6.5	14.7	159	211	23.7	4.5	86	13.1			Sediment

Quarterly Surface Water Monitoring Results SW3c:

							Parameter	Ammonium	pH	BOD (5day)	Conductivity	Chemical Oxygen Demand	Chloride	Dissolved	Suspended Solids	Temperature	Faecal col	Total Colif	Appearance
Location	Location E	Location N	Sample Date	Sample Time	Sampled By	Comments	NH4 mg/l	Physchem pH units	O2 mg/l	Physchem µS/cm	O2 mg/l	Cl mg/l	O2 mg/l	Physchem mg/l	Physchem Degrees C	FC marine no./100mls	Total Colif no./100mls	Descriptive	
Sw3c	83098.1	98785.1	09-Jan-13	12:27	Andrew Scanlon	Very Little Flow	0.02	6.4	1	211	31	33.3	3.7	9	8.7	134	2851	Clear	
Sw3c	83098.1	98785.1	09-Apr-13	11:45	Derry Bowler		0.03	6.4	4.5	207	36	29.9	6.2	39	8				
Sw3c	83098.1	98785.1	03-Jul-13	11:51	Andrew Scanlon	Water not flowing	0.6	6.4	2.8	233	32	28.5	1.9	25	15.3			Sediment	
Sw3c	83098.1	98785.1	16-Oct-13	11:50	Andrew Scanlon	Stagnant	0.98	6.9	3.1	252	54	32.2	5.6	48	13			Sediment	

Quarterly Surface Water Monitoring Results SW4b:

Location	Location E	Location N	Sample Dt	Sample Ti	Sample M	Sampled By	Parameter	Ammonium	pH	BOD (5day)	Conductivity @ 20 oC	Chemical Oxygen Demand	Chloride	Dissolved Oxygen	Suspended Solids	Temperature	Faecal coliforms	Total Coliforms	Appearance
							Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C	no./100ms	no./100ms	Descriptive
Sw4b	83116	98869	09-Jan-13	12:06	Grab	Andrew Scanlon	Very Little Flow	0.04	7.3	1.6	355	55	19.2	5.2	15	6.5	< 10	820	Clear
Sw4b	83116	98869	09-Apr-13	11:40	Grab	Derry Bowler		0.02	6.5	< 1	196	17	29.3	8.5	2	7.9			
Sw4b	83116	98869	03-Jul-13	12:00	Grab	Andrew Scanlon		0.2	6.6	< 1	243	27	28.5	4.3	3.5	14.7			Clear
Sw4b	83116	98869	16-Oct-13	12:02	Grab	Andrew Scanlon	Stagnant	1.9	6.7	6.4	256	90	30.2	4.4	76	13.3			Sediment

Pollutant Load Investigation SW8:

Location	Location E	Location N	Sample Dt	Sample Ti	Sample M	Sampled By	Reason	Parameter	Ammonium	pH	BOD (5da)	Conductivi	Chemical	Chloride	Dissolved	Suspende	Temperatu	Appearance	Odour
							Comments	NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem	Physchem	Descriptive	Descriptive
								mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C	Degrees C		
Sw8	83033	98594.6	09-Apr-13	12:05	Grab	Derry Bowler	Compliance manhole	29.69	7.6	1.1	898	39	73.9	6.5	6	7.7			
Sw8	83033	98594.6	03-Jul-13	11:17	Grab	Andrew Scanlon	Compliance	21.96	7.4	< 1	916	32	74.3	3.6	15	14.9	Clear	N/D	
Sw8	83033	98594.6	16-Oct-13	11:05	Grab	Andrew Scanlon	Compliance	47	7.6	1.6	1132	60	83	4.9	5	12.9	Clear	N/D	

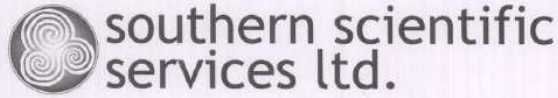
Pollutant Load Investigation upstream SW8:

Category	Location	Location E	Location N	Sample Dt	Sample Ti	Sample M	Sampled By	Parameter	Ammonium	pH	BOD (5da)	Conductivi	Chemical	Chloride	Dissolved	Suspende	Temperatu	Faecal col	Total Colif
							Comments	NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem	FC marine	no./100ms	
								mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C	Degrees C		no./100ms
Landfill	u/s SW8	83089.5	98605.2	09-Jan-13	11:46	Grab	Andrew Scanlon		10.81	7.1	5.3	409	36	31.3	2	11	5.2	< 10	1408
Landfill	u/s SW8	83089.5	98605.2	09-Apr-13	12:00	Grab	Derry Bowler		42.61	7.1	< 1	876	53	70.3	4.9	4	7.4		
Landfill	u/s SW8	83089.5	98605.2	03-Jul-13	11:22	Grab	Andrew Scanlon	Water not flowing	61.84	7.4	4.7	1244	93	82.9	4.5	35	15.3		
Landfill	u/s SW8	83089.5	98605.2	16-Oct-13	11:12	Grab	Andrew Scanlon	Stagnant	41	7.6	3.2	916	101	69.4	2.3	80	12.1		

Quarterly Foul Water Emission Monitoring Results Fe1:

Category	Location	Location E	Location N	Sample D:	Sample T:	Sampled By	Comments	Parameter	Ammonium	pH	BOD (5da)	Conductivi	Chemical O	Chloride	Dissolved	Suspende	Temperatu	Appearanc	Oils/Fats & Grease
								NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem	Descriptive	OFG	
								mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C	Descriptive	mg/l	
Landfill	Fe1	83066.4	98728	09-Jan-13	11:05	Andrew Scanlon		1.4	6.9	3.6	689	23			3.1	8	9.6	Clear	< 0.5
Landfill	Fe1	83066.4	98728	09-Apr-13	11:30	Derry Bowler		3.39	6.8	1.7	298	22	33.3		< 1	7.8		< 0.5	
Landfill	Fe1	83066.4	98728	03-Jul-13	11:43	Andrew Scanlon		8.28	6.6	64.7	441	188		< 1	16	15.7	Cloudy		
Landfill	Fe1	83066.4	98728	16-Oct-13	11:27	Andrew Scanlon		14	6.8	114	447	201		3	48	13.7	Cloudy	4	

Appendix III – Results of Dust Monitoring



OUR REF: RP 2013 | KERRY COUNTY COUNCIL – MILLTOWN | 01

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ANALYSIS REPORT

CUSTOMER:	KERRY COUNTY COUNCIL	SAMPLE TYPE:	DUST
ADDRESS:	Environment Section, Main Street, Tralee, County Kerry	CONDITION OF SAMPLE ON RECEIPT:	Satisfactory
REPORT TO:	TARA O CARROLL	DATE SAMPLED:	30 Days
SAMPLED BY:	John Mannix, Kerry County Council	DATE RECEIVED:	01 November 2013
SAMPLING PT:	Milltown Transfer Station	DATE ANALYSED:	06 - 19 November 2013
ORDER NO:	400 327 048	DATE REPORTED:	20 November 2013
		WORK NO.:	29255 C 12P-101

TABLE OF RESULTS

METHOD:	LAB REF:	YOUR REF:	TOTAL PARTICULATES mg/m ³ /day	INORGANIC PARTICULATES mg/m ³ /day
SCP 039	C13-Nov 010	Station 1	343	150
SCP 039	C13-Nov 014	Station 2	110	46
SCP 039	C13-Nov 012	Station 3	83	32

Karen Lavery
Karen Lavery
Chemistry Laboratory

SCP 039	C13-Nov 013	Station 2	91	35
SCP 039	C13-Nov 016	Station 1	110	46
SCP 039	C13-Nov 018	Station 1	111	47

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registered in ireland no 323196 | vat reg no IE 6343196 M

Appendix IV – Noise Monitoring Report



Environmental Efficiency
Consulting Engineers

Bray (Co. Wicklow) 01 276 1428
Lisburn (Co. Antrim) 028 9262 6733

Environmental Noise Survey 2013

at

Milltown WTS, Ballyvirrane,
Milltown, Co. Kerry

for

Kerry County Council

Waste licence: W069-01

Document Number: 1492-01

Email: energy@iol.ie www.enviro-consult.com Registered Office as above. Registered Number 243 412
Directors: Noel J. McGrath Robert B. Sutcliffe

Environmental Services for Industry Including –

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- ▶ Air & Noise Modelling
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- ▶ IPPC/Waste Licence Compliance
- ▶ EIS & Planning
- ▶ Occupation Dust & Noise

Affiliations & Accreditations

- ▶ ISO 14001:2004 Registration No. 2012/1427
- ▶ MCERTS Certified personnel for stack testing
- ▶ Member of Source Testing Association
- ▶ Member of Royal Society for Prevention of Accidents
- ▶ Member Water Monitoring Association
- ▶ Member Environmental Services Association
- ▶ EMPI Membership



QF 1. v2 Document Lead Sheet

Document Title	Environmental Noise Survey 2013 at Milltown WTS, Ballyvirrane, Milltown, Co. Kerry
Project No.	1492
Document No.	1492-01
Client	Kerry County Council
Address	Milltown WTS, Ballyvirrane, Milltown, Co. Kerry

Issue	Status	Date	Author	Signed for and on behalf of	
				Environmental Efficiency	Client
1.00	Approved	19/12/2013	GB	<i>Bob Sutcliffe</i>	

SR04 v2.2

Where it is a requirement that this report be issued to a regulatory or other authority, then the client should sign the appropriate place in the above table and, unless specifically agreed in writing to the contrary, forward copies to the appropriate authority (e.g. EPA).

EEC Project Manager: Bob Sutcliffe, CEng, MIEI

EEC Document Author: George Byrne, MSc Biosystems Engineering

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1. Introduction

Kerry County Council has a Waste Licence (W069-01) at their Waste Transfer Facility (WTF) at Milltown WTS, Ballyvirrane, Milltown, Co. Kerry issued by the EPA. This requires that, amongst other things, a noise survey carried out in accordance to EPA Guidance Note NG4. The noise survey is required to be carried out at various specified locations in the vicinity of the site. This document reports the results of the noise survey undertaken.

2. Executive Summary

A noise survey to EPA NG4 was undertaken on the 11/12/2013.

Noise levels recorded at Noise Sensitive Locations (NSL's) are determined to be below the emission limit value. The site is therefore in compliant as regards noise levels. The compliance status at each location is shown in the table below.

Table 2-1 Summary of compliance

Location	NSL	Daytime
B1	No	N/A
B2	No	N/A
B3	No	N/A
B4	Yes	Compliant
B5	Yes	Compliant

3. Facility Description

The principal activity of the Transfer Station is the compaction of solid waste into 30 cubic meter closed containers. 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. Small quantities of organic waste are also collected. The facility is operational between the hours of 09:00 to 17:00 Monday to Friday; the waste transfer station does not generate noise at night-time when the facility is closed.

4. Monitoring requirements

Noise is required to be monitored at the locations shown in the table immediately below. The noise limits applicable are also shown in the second table below. Note that noise monitoring was only carried out during periods where there was activity or equipment running on the site.

Table 4-1 Locations monitored

Location	Location Description	Noise sensitive location
B1	Old site entrance	No
B2	Entrance to the facility	No
B3	Boundary location	No
B4	NSL dwelling to the south of the facility	Yes
B5	NSL dwelling to the north of the facility	Yes

Photographs of each monitoring position can be found in Appendices.

Table 4-2 Parameters monitored

	dBA	T	Frequency
Daytime	55	30	Annual
Night-time	N/A	N/A	Annual
Third Band Octave	N/A	N/A	Not required

5. Sampling Methodology

5.1 Instrumentation Used

The equipment shown in the table below was used during the noise survey. All Sound Level Meters are Type I. Due to the number of noise monitoring locations two sets of similar equipment were used. Calibration certificates for the equipment, where appropriate, are shown in the appendices.

Table 5-1: Equipment Used

Equipment	First Set			Second set		
	Model	Serial Number	Cal cert	Model	Serial Number	Cal cert
SLM	CR:811C	D21736FD	Yes	CR:811C	D21736FD	Yes
Microphone	MK: 224	20044265	Yes	MK: 224	20044265	Yes
Calibrator	CR: 511E	51431	Yes	CR: 511E	51431	Yes
Tripod	N/A	N/A	N/A	N/A	N/A	N/A
Windshield	N/A	N/A	N/A	N/A	N/A	N/A
Anemometer	Kestral	N/A	N/A	Kestral	N/A	N/A

All noise measurements were 'A' weighted and the time-weighting 'Fast' was applied (to equate to human ear hearing). Each SLM is calibrated in the field before the start of each monitoring run and again at the end of the monitoring run. Unless stated otherwise in this report, there was no discrepancy greater than 0.1 dB between the SLM reading and the calibration noise level of 93.7 dB.

The SLM used is capable of third band octave measurement. Where monitoring is during daytime or evening, a penalty is added in cases where the presence of tonal is verified. The simplified methodology for the objective identification of tones specified in Annex D of ISO 1996K2:2007(E) is used for this purpose. However as No tonal noise was subjectively noted during any of the monitoring events at the NSL, no noise recoding was taken.

5.2 Noise Survey Personnel

The noise survey was undertaken by Environmental Efficiency Consultants (Ire) Ltd. Staff as follows

- Lead consultant George Byrne, MSc Biosystems Engineering

5.3 Meteorological Conditions

Weather conditions on the day of monitoring were considered appropriate for surveying purposes and therefore did not affect the readings i.e. conditions were dry and wind speed was marginally (2%) more than 5 m/s (the normal upper limit for taking measurements) during the minority of the monitoring runs. This level of wind speed has not significantly effected the results. The Sound Level Meter was also fitted with a windshield to minimise interference from potential meteorological conditions.

in keeping with good practice. The meteorological conditions during the survey periods are shown below.

Table 5-2: Weather Conditions Day 1

	Date and time	Av. wind speed, m/s	Temp, C	Prevailing weather conditions
Start survey	11/12/2013 14:05	5.0	10.0	Partly cloudy
Mid survey	11/12/2013 15:12	5.1	11.0	Mostly cloudy
End survey	11/12/2013 16:24	3.6	11.0	Mostly cloudy

5.4 Measurement duration

The EPA specified minimum runs and survey duration are shown in the table below.

Table 5-3: Number of runs and monitoring duration

	Number of runs	NSL survey duration, (mins)	Boundary survey duration (mins)
Daytime (07:00 to 19:00)	3	90	30
Evening (19:00 to 23:00)	N/A	N/A	N/A
Night-time (23:00 to 07:00)	N/A	N/A	N/A



Figure 5-1 Site map

5.5 Ground attenuation

If the intervening ground between a noise source and a measurement location is acoustically absorptive, this can result in a reduction in noise level at the receptor due to absorption of sound energy by the ground itself. On contrary, if the intervening ground is acoustically reflective ground, it produces the opposite effect.

The details of the intervening ground between sources and measurement positions are described in the following table:

Table 5-4: Ground attenuation

Location	% Soft Ground	% Hard Ground	Comments
B1	90	10	N/A
B2	0	100	N/A
B3	0	100	N/A
B4	87	13	N/A
B5	80	20	N/A

6. Noise Survey

The measurement parameters $L_{Aeq,T}$, L_{AF90} and L_{AF10} plus the derived parameter $L_{Ar,T}$ are tabulated below in the tables for each monitoring location. Associated particulars such as a description of the on-site noise and off-site noise noticed at each location are also provided. A graphical representation of the parameters $L_{Aeq,T}$, L_{AF90} and $L_{Ar,T}$ over each monitoring period is provided in the graphs following each table.

The derived noise parameter $L_{Ar,T}$, termed the Rated Noise Level, includes a penalty of 5 dBA for tonal or impulsive noise where such noise is present. This penalty is normally added to $L_{Aeq,T}$. Where traffic or other off site intermittent noise sources are significant, the parameter L_{AF90} may be a better descriptor of site noise and where this is the case the Rated Noise Level is equal to L_{AF90} , plus the penalty. In the tables

below, where L_{AF90} is considered a better descriptor of site noise, an asterisk is appended to the measurement.

The penalty for on-site tonal noise and/or on-site impulsive noise is only applied during the daytime and evening periods. No tonal or impulsive noise is permitted during night-time; if such noise is present then this is a breach regardless of the $L_{Aeq,T}$ or L_{AF90} noise level.

Where on site tonal is heard this is noted in the tables below in the column 'On site tonal?' In all cases where on-site tonal is heard the simplified methodology for the objective identification of tones specified in Annex D of ISO 1996K2:2007(E) is used to confirm the presence of tonal. Where on site tonal is confirmed, this is shown in the tables below in the column 'Tonal confirmed'. The third octave graphs used to confirm on site tonal are shown in the discussion section.

The column headed 'On site impulsive' states whether impulsive noise was heard by the monitoring personnel.

6.1 **B1**

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	LAFmax	On site tonal?	On site impulsive ?	Rated Noise Level, LAr,T	Description of On-site Noise Sources	Description of Off-site Noise Interference	Compliant
Daytime	1	First set	11/12/2013 14:39	51	44 *	56	83	N/A	N/A	44	Cars and vans entering the facility	Wind blowing trees	N/A

6.2 **B2**

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	LAFmax	On site tonal?	On site impulsive ?	Rated Noise Level, LAr,T	Description of On-site Noise Sources	Description of Off-site Noise Interference	Compliant
Daytime	1	Second set	11/12/2013 14:05	50	43 *	58	78	N/A	N/A	43	Cars and vans entering the facility	Wind blowing trees	N/A

6.3 **B3**

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	LAFmax	On site tonal?	On site impulsive ?	Rated Noise Level, LAr,T	Description of On-site Noise Sources	Description of Off-site Noise Interference	Compliant
Daytime	1	First set	11/12/2013 12:39	51	40 *	55	82	N/A	N/A	40	Cars and vans entering the facility. People using bottle banks.	Wind blowing trees	N/A

Notes

1. Rated Noise Level is equal to $L_{Aeq,T}$ (or L_{AF90} where this is a better descriptor) plus any adjustments for tonal or impulsive characteristics. Note that no adjustments for tonal are permitted for night-time monitoring as no tonal is permitted at night
2. Where L_{AF90} is a better descriptor of on site noise, the value is marked with an asterisk

6.4 **B4 (NSL)**

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	LAFmax	On site tonal?	On site impulsive?	Rated Noise Level, LAr,T	Description of On-site Noise Sources	Description of Off-site Noise Interference	Compliant
Daytime	1	Second set	11/12/2013 14:58	49	41 *	56	80	No	No	41	Cars and vans entering the facility	Wind blowing trees. Dog barking	Yes
Daytime	2	Second set	11/12/2013 15:28	51	46 *	55	79	No	No	46	Cars and vans entering the facility	Wind blowing trees. Dog barking	Yes
Daytime	3	Second set	11/12/2013 15:58	50	43 *	54	78	No	No	43	Cars and vans entering the facility	Wind blowing trees. Dog barking	Yes

Notes

3. Rated Noise Level is equal to $L_{Aeq,T}$ (or L_{AF90} where this is a better descriptor) plus any adjustments for tonal or impulsive characteristics. Note that no adjustments for tonal are permitted for night-time monitoring as no tonal is permitted at night
4. Where L_{AF90} is a better descriptor of on site noise, the value is marked with an asterisk

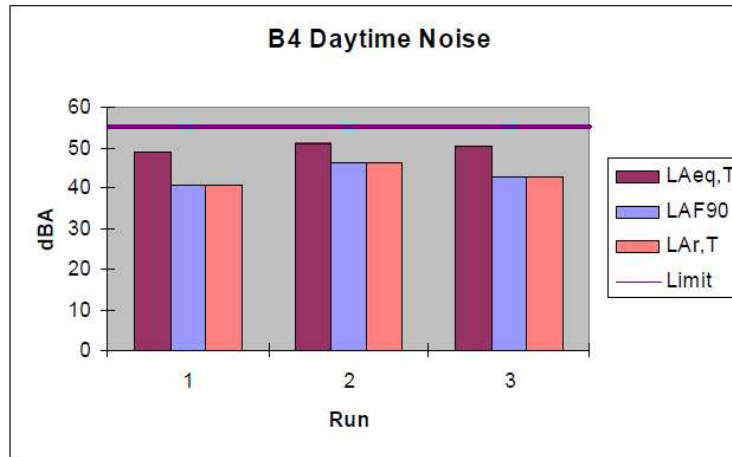


Figure 6-1 B4 Noise Graph

6.5 **B5 (NSL)**

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	LAFmax	On site tonal?	On site impulsive?	Rated Noise Level, LAr,T	Description of On-site Noise Sources	Description of Off-site Noise Interference	Compliant
Daytime	1	First set	11/12/2013 15:31	58	49 *	58	78	No	No	49	Noise from facility not audible	Traffic along the road. Strimming. Wind blowing trees	Yes
Daytime	2	First set	11/12/2013 16:01	65	46 *	64	95	No	No	46	Noise from facility not audible	Traffic along the road. Strimming. Wind blowing trees	Yes
Daytime	3	First set	11/12/2013 16:31	64	46 *	62	86	No	No	46	Noise from facility not audible	Traffic along the road. Strimming. Wind blowing trees	Yes

Notes

1. Rated Noise Level is equal to $L_{Aeq,T}$ (or L_{AF90} where this is a better descriptor) plus any adjustments for tonal or impulsive characteristics. Note that no adjustments for tonal are permitted for night-time monitoring as no tonal is permitted at night
2. Where L_{AF90} is a better descriptor of on site noise, the value is marked with an asterisk

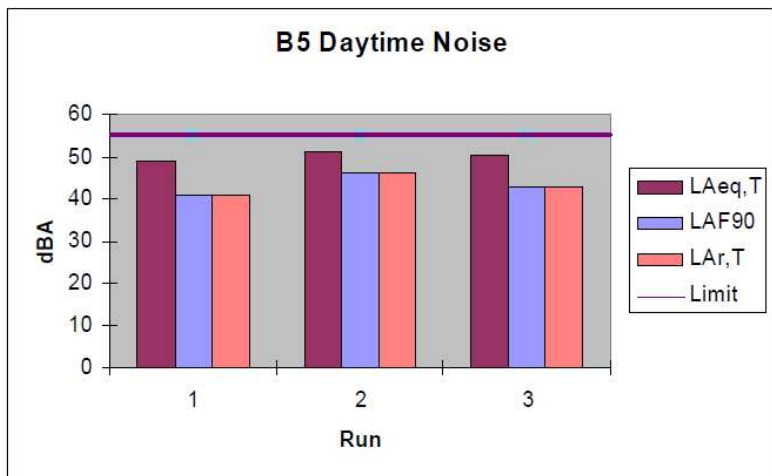


Figure 6-2 B5 Noise Graph

7. Discussion

At the two Noise Sensitive Locations; NSL5 and NSL6, the results for the day-time noise monitoring did not exceed the ELV according to company's Waste Licence.

There were no tonal or impulsive noise subjectively noted at any noise sensitive location.

Table 7-1 Summary of discussion

Location	Period	NSL	Tonal noise subjectively noted	Impulsive noise is subjectively noted	Noise Level breaches ELV
B4	Daytime	Yes	No	No	No
B5	Daytime	Yes	No	No	No

8. Conclusion

Noise levels recorded at Milltown Waste Transfer Station are deemed to be below the Exceedance Limit Value set out in the companies Waste Licence

Appendix 1 Report Terminology

Noise Monitoring Parameters	
Survey	The measurement of noise over one or more days and is made up of a number of monitoring runs with one or more noise meters.
Run or monitoring run	A single measurement at one location to determine noise level. A number of monitoring runs will be typically be made at each location. The duration of a monitoring run is typically 15 or 30 minutes and is stipulated in the licence.
dB(A)	This is the unit used to quantify noise measurements. "dB" stands for decibel and the "A" indicates that the noise reading is A-weighted and therefore is a measurement of noise audible to the human ear. The scale is logarithmic.
$L_{Aeq,T}$	This parameter is measured on-site using a noise meter for a specified time period (T minutes). It represents the average noise level that occurred over that period.
Rated Noise Level or $L_{A,T}$	The Rated Noise Level is equal to $L_{Aeq,T}$ plus any penalty for confirmed tonal and/or subjective impulsive. The penalty is only added for daytime and evening monitoring.
L_{AF10} and L_{AF90}	The L_{AF10} and L_{AF90} are both statistical noise levels. L_{AF10} indicates that for 10% of the monitoring period, the sound levels were greater than the quoted value. L_{AF90} indicates that for 90% of the monitoring period, the sound levels were greater than the quoted value. The L_{AF90} indicates the background noise levels if short-term, intermittent noise sources were ignored e.g. a passing car. The L_{AF10} can be used to determine the effect to which these short-term noise sources effect the overall average reading i.e. if the L_{AF10} is very different to the L_{AF90} , then intermittent noise is a significant source of noise
Continuous	Noise produced without interruption.
Impulsive Noise	A noise of short duration (typically less than one second), the sound pressure of which is significantly higher than the background; brief and abrupt
Intermittent Noise	Noise produced on discontinuous basis e.g. equipment operating in cycles or events such as single passing vehicle or aircraft.
Tonal Noise	Noise, which contains a clearly audible, tone i.e. a distinguishable, discrete or continuous note (whine, hum, drone, screech, etc.).

Appendix 2 Certificates of Calibration CR:811B



NSAI
National Metrology Laboratory

Certificate of Calibration

Issued to: Environmental Efficiency Consultants Ireland Ltd.
Parnell House, 19 Quinsboro
Bray
Co. Wicklow

Attention of: Mr. Ronan Sutcliffe

Certificate Number: E13353B
 Item Calibrated: Cirrus CR-511E Acoustic Calibrator
 Serial Number: 035066
 Client ID Number: LEN 003
 Order Number: LSP01448
 Date Received: 30 Jul 2013
 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 Digital Multimeter, File No. 0736 [Cal due: 10 Jul 2014]
 B & K 4134 Measuring Microphone, File No. 0743 [Cal due: 17 Apr 2014]
 B & K 4228 Pistonphone, File No. 0740 [Cal due: 08 Aug 2014]

Calibrated by: *Sam Boles*
 Sam Boles *SB*

Approved by: *Paul Hetherington*
 Paul Hetherington

Date of Calibration: 07 Aug 2013

Date of Issue: 12 Aug 2013

 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

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NSAI

National Metrology Laboratory

Certificate of Calibration

Issued to	Environmental Efficiency Consultants Ireland Ltd. Parnelli House, 19 Quinsboro Bray Co. Wicklow
Attention of	Mr. Ronan Sutcliffe

Certificate Number	E13353A
Item Calibrated	Cirrus CR-811B Sound Level Meter, complete with Cirrus Type CR-MV200C Pre-amplifier and Cirrus Type UK 224 Microphone
Serial Numbers	C16569FD (Sound Level Meter), 2533 (Pre-amplifier) and 20041382 (Microphone)
Client ID Number	LEN 002 (Sound Level Meter)
Order Number	LSPO1448
Date Received	30 Jul 2013
NML Procedure Number	AP-NM-09

Method The above sound level meter was allowed to stabilise for a suitable period in laboratory conditions. It was then calibrated by carrying out the verification tests detailed in IEC 61672-3 (2006). *Periodic tests, specification for the verification of sound level meters.* This standard specifies a procedure for the periodic verification of conformance of a sound level meter or integrating-averaging meter to IEC 61672-1 (2003).

Calibration Standards Norsonic 1504A Calibration System incorporating:
 SR D5360 Signal Generator, No. 0735, [Cal. Due Date: 16 Jul 2014]
 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 <u>Sam Boles</u>	Approved by <u>P. Hetherington</u>
Sam Boles 	Paul Hetherington
Date of Calibration 12 Aug 2013	Date of Issue 12 Aug 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)

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Appendix 3 Certificates of Calibration CR:811C

Certificate of Calibration**Equipment Details**

Instrument Manufacturer Cirrus Research plc
 Instrument Type CR:515
 Description Acoustic Calibrator
 Serial Number 51431

Calibration Procedure

The acoustic calibrator detailed above has been calibrated to the published data as described in the operating manual. The procedures and techniques used to follow the recommendations of the IEC standard Electroacoustics – Sound Calibrators IEC 60942:2003, IEC 60942:1997, BS EN 60942:1998 and BS EN 60942:2003 where applicable. The calibrator's main output is 94.00 dB (1 Pa) and this was set within the 0.01 dB resolution of the test system, i.e. one hundredth of a decibel. Numbers in (parenthesis) refer to the paragraph in IEC 60942.

Calibration Traceability

The calibrator above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (A.0.6). The standards are:

Microphone Type	B&K4180	Serial Number	1893453	Calibration Ref.	S 6009
Pistonphone Type	B&K4220	Serial Number	613843	Calibration Ref.	S 5964

Calibration Climate Conditions

The climatic test conditions were all maintained within the permitted limits of IEC 60942:1997.

Temperature	(B.3.2)	Permitted band	15°C to 25°C
Humidity	(B.3.2)	Permitted band	30% to 90% RH
Static Pressure	(B.3.2)	Permitted band	85 kPa to 105 kPa
Ambient Noise Level	(B.3.3.6)	Max permitted level	64 dB(Z)

Measurement Results

The figures below are the Calibration Laboratory test limits for this model calibrator and have a smaller tolerance than those permitted in IEC 60942.

94 dB Output	94.00 dB	Permitted band	93.95 to 94.05dB
104 dB Output	dB	Permitted band	103.80 to 104.30dB
Frequency	1000 Hz	Permitted band	990 to 1010Hz

Uncertainty

With an uncertainty coefficient of $k=2$, i.e. a 95% confidence level, the uncertainty of each measure is

94 dB Output	± 0.13 dB	104 dB Output	± 0.14 dB
Frequency	± 0.1 Hz	Level Stability	± 0.04 dB

Calibrated by

Calibration Date

30 October 2013

Calibration Certificate Number

212008

This Calibration Certificate is valid for 12 months from the date above.

Cirrus Research plc, Acoustic House, Bridlington Road, Humby, North Yorkshire, YO14 0PH
 Telephone: +44 (0) 1723 891655 Fax: +44 (0) 1723 891742
 Email: sales@cirrusresearch.co.uk

Certificate of Calibration



Equipment Details

Instrument Manufacturer Cirrus Research plc
 Instrument Type CR-811C
 Description Sound Level Meter
 Serial Number D21736FD

Calibration Procedure

The instrument detailed above has been calibrated to the publish test and calibration data as detailed in the instrument hand book, using the techniques recommended in the latest revisions of the International Standards IEC 61672-1:2002, IEC 60651:1979, IEC 60804:2001, IEC 61260:1995, IEC 60942:1997, IEC 61252:1993, ANSI S1.4-1983, ANSI S1.11-1986 and ANSI S1.43-1997 where applicable.

Sound Level Meters: All Calibration procedures were carried out by substituting the microphone capsule with a suitable electrical signal, apart from the final acoustic calibration.

Calibration Traceability

The equipment detailed above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards [A.0.6]. The standards are:

Microphone Type	B&K4180	Serial Number	1893453	Calibration Ref.	S 6009
Pistonphone Type	B&K4220	Serial Number	613843	Calibration Ref.	S 5964

Calibrated by

T.A. Goodall

Calibration Date

30 October 2013

Calibration Certificate Number

212009

This Calibration Certificate is valid for 12 months from the date above.

Cirrus Research plc, Acoustic House, Bridlington Road, Hunmanby, North Yorkshire, YO14 0PH
 Telephone: +44 (0) 1723 891655 Fax: +44 (0) 1723 891742
 Email: sales@cirrusresearch.co.uk

Appendix 4 Photographs of Monitoring Location



Figure 8-1 B1



Figure 8-2 B2



Figure 8-3 B3



Figure 8-4 B4



Figure 8-5 B5

Appendix V- AER/PRTR Return 2013

Sheet : Facility ID Activities

AER Returns Workbook

17/2/2014 14:17



Environmental Protection Agency

| PRTR# : W0069 | Facility Name : Milltown Transfer Station | Filename : w0069_2013(1).xism | Return Year : 2013 |

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.17

REFERENCE YEAR	2013
----------------	------

1. FACILITY IDENTIFICATION

Parent Company Name	Kerry County Council
Facility Name	Milltown Transfer Station
PRTR Identification Number	W0069
Licence Number	W0069-01

Waste or IPPC Classes of Activity

No.	class_name
3.12	Repackaging 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.
4.1	Solvent reclamation or regeneration.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Ballyvhirrane
Address 2	Milltown
Address 3	Co Kerry
Address 4	
	Kerry
Country	Ireland
Coordinates of Location	-9.70743 52.1285
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	0667162046
AER Returns Contact Mobile Phone Number	0879129535
AER Returns Contact Fax Number	0667162001
Production Volume	0.0

| PRTR# : W0069 | Facility Name : Milltown Transfer Station | Filename : w0069_2013(1).xism | Return Year : 2013 | Page 1 of 2

Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	2534
Number of Employees	1
User Feedback/Comments	Treatment/Transfer Waste tab confirmed tonnage changes from 2012: 150101 +8.66t 150102 +10.44t 150104 +4.65t 150106 +5.52t 150107 +17.91t 160211 +1.35 change of destination to EWM 160214 +11.95t 200101 +9.8t 200108 +2.22t 200111 +0.8T 200121 +0.3t 200134 +1.02t 200135 +6.22t 200136 +2.94t 200140 +1.4t 200301 -110.74t due to decrease in activity on site
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
50.1	General

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

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

4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	No
--	----

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR#: W0069 | Facility Name : Milltown Transfer Station | Filename : w0069_2013(1).xlsm | Return Year : 2013 |

10/02/2014 13:04

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD USED			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD USED			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD USED			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR#: W0069 | Facility Name : Milltown Transfer Station | Filename : w0069_2013(1).xlsm | Return |

10/02/2014 13:04

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

PRTR# : W0069 | Facility Name : Milltown Transfer Station | Filename : w0069_2013(1).xls | Return Year : 2013

04/03/2014 12:56

Please enter all quantities on this sheet in Tonnes

11

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Has Waste : Name and Licence/Permit No of Receiving Facility Non-Has Waste : Name and Licence/Permit No of Recover/Disposer	Has Waste : Address of Next Destination Facility Non-Has 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/OE	Method Used					
Within the Country	15 01 01	No	102.88	Cardboard packaging baled	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 02	No	53.16	plastic packaging	R3	M	Weighed	Offsite in Ireland	Dillon Waste Ltd,WFP KY 10-001	The Keries, ,Tralee, County Kerry, Ireland		
Within the Country	15 01 04	No	16.11	metallic packaging	R4	M	Weighed	Offsite in Ireland	Dillon Waste Ltd,WFP KY 10-001	The Keries, ,Tralee, County Kerry, Ireland		
Within the Country	15 01 06	No	52.16	mixed packaging	R3	M	Weighed	Offsite in Ireland	Killarney Waste Disposal Ltd.,W0217-01	Waste Disposal Ltd.,County Kerry,Ireland		
Within the Country	15 01 07	No	92.62	glass packaging	R5	M	Weighed	Offsite in Ireland	Dillon Waste Ltd,WFP KY 10-001	The Keries, ,Tralee, County Kerry, Ireland		
To Other Countries	16 02 11	Yes	10.24	discarded equipment containing chlorofluorocarbons, HCFC, HFC	R4	M	Weighed	Abroad	EWM Ltd,WFP-DS-09-0012-01	Block 648 Jordanstown Drive,Greenogue Industrial Estate,Rathcoole,County Dublin,Ireland	EMR,EAML40099, ,Darlaston, ,United Kingdom	...Darlaston, ,United Kingdom
To Other Countries	16 02 14	No	32.74	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	R4	M	Weighed	Abroad	EWM Ltd,WFP-DS-09-0012-01	Block 648 Jordanstown Drive,Greenogue Industrial Estate,Rathcoole,County Dublin,Ireland		
Within the Country	20 01 01	No	162.3	newspaper and magazines	R3	M	Weighed	Offsite in Ireland	Dillon Waste Ltd,WFP KY 10-001	The Keries, ,Tralee, County Kerry, Ireland		
Within the Country	20 01 08	No	6.98	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Killarney Waste Disposal Ltd.,W0217-01	Waste Disposal Ltd.,County Kerry,Ireland		
Within the Country	20 01 11	No	1.64	textiles	R3	M	Weighed	Offsite in Ireland	Textile Recycling Ltd.,WPR-014/2	Road,Tallaght,Dublin,24, Ireland		
To Other Countries	20 01 21	Yes	1.12	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
To Other Countries	20 01 34	No	2.22	batteries and accumulators other than those mentioned in 20 01 33	R4	M	Weighed	Abroad	EWM Ltd,WFP-DS-09-0012-01	Block 648 Jordanstown Drive,Greenogue Industrial Estate,Rathcoole,County Dublin,Ireland		
Within the Country	20 01 35	Yes	44.59	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	R4	M	Weighed	Offsite in Ireland	EWM Ltd,WFP-DS-09-0012-01	Block 648 Jordanstown Drive,Greenogue Industrial Estate,Rathcoole,County Dublin,Ireland	The Recycling Village,WFP/MH/11/0005/01, Unit 21 Duleek Business Park,Commons,Duleek, County Meath,Ireland	Unit 21 Duleek Business Park,Commons,Duleek, County Meath,Ireland
To Other Countries	20 01 36	No	30.66	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Abroad	EWM Ltd,WFP-DS-09-0012-01	Block 648 Jordanstown Drive,Greenogue Industrial Estate,Rathcoole,County Dublin,Ireland		
Within the Country	20 01 40	No	49.52	metals	R4	M	Weighed	Offsite in Ireland	United Metals,WFP-LXC-10-001-02	Ballysimon Road,Limerick, ,Ireland		
Within the Country	20 03 01	No	1376.96	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	North Kerry Landfill,W001-04	North Kerry Landfill,W001-04		
Within the Country	20 01 25	No	0.17	edible oil and fat	R1	M	Weighed	Offsite in Ireland	ENVA Ireland,W0184-01	ENVA Ireland Ltd,Clonminam ,Portlaoise,Co Laois,Ireland		

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