Kerry County Council

Waste Licence Ref No. W0072-01

REPORT TITLE

Coolcaslagh Transfer Station, Killarney
Annual Environmental Report

Reporting Period:

1st January – 31st December 2013

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

March 2014

1.0 Introduction

Kerry County Council operates a waste transfer and recycling facility at Coolcaslagh, Killarney, Co. Kerry which is located approximately 5 km east of the town of Killarney. The facility is located in the townland of Coolcaslagh on the county road L2507 and approximately 3 km from Lissyviggeen Cross on the N22.

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 Muingnaminnane, 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 W0072-01 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 Coolcaslagh Transfer Station are in accordance with Part 1 of Waste Licence W0072-01 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 Coolcaslagh Transfer Station are in accordance with Part 1 of Waste Licence W0072-01 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

The quantity disposed of at Coolcaslagh Transfer Station during the reporting year (2013) increased by 11 tonnes on the previous year (2012).

The weight of the waste accepted into Coolcaslagh Transfer Station Facility for disposal for the reporting period was 2,420.60 Tonnes. This comprises of the following breakdown:

Source	***2012***	***2013***
Killarney Town Council refuse collection	967.94	957.18
Household waste	1,173.98	1,185.84
Small commercial business waste	35.16	34.68
KLA Commercial Waste	24.66	10.84
KLA Road Sweepings	127.62	136.20
Graveyard Waste	14.72	15.54
KLA Flytipping/Street Cleaning	65.06	80.22
Total	**2,409.14**	**2,420.60**

Table 1 – Waste by Source.

Appendix I contains the breakdown of waste by source for the reporting period.

The quantities of waste sent for recycling increase by 15% overall in comparison to last reporting period (489.18 tonne in 2012 to 564.11 tonnes in 2013).

Schedule G of the licence outlines the Waste type and quantities allowable per annum

Waste type	**Max Tonnes per Annum**	**2013**
Municipal	19,000	2,420.60
Wastes for recovery/recycling	500	564.11
Organic Waste for composting	3,000	0
C&D Waste	1,000	0

It is Kerry County Council intension to seek a technical amendment to the licence to adjust the max quantity of recyclable/recovery waste per annum allowable.

Household Waste Deposited at Cooclaslagh Civic Amentity Sites in 2013														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Mixed residual waste	20 03 01	228.70	164.20	220.24	210.56	206.50	172.94	212.58	230.84	184.60	206.18	168.18	215.08	**2,420.60**
Mixed dry recyclables (Ecosence Bags)	15 01 06			2.94				3.06			2.78		0.00	**8.78**
Cardboard, newspaper and other paper														
cardboard packaging	*15 01 01*	10.22		14.40			23.10		14.58	0.00	14.68		0.00	**76.98**
newspaper and magazines	*20 01 01*	13.22	9.94	10.06	11.02	13.04	13.26	12.32	14.00	12.16	14.86	8.92	13.22	**146.02**
Glass														
glass packaging (bottles)	*15 01 07*	9.38	5.62	6.12		22.15		8.84	8.69	8.77	5.02	4.71	7.20	**86.50**
Metals														
aluminium cans (packaging)	*15 01 04*	0.29	0.18	0.22		0.80		0.31	0.25	0.26	0.17	0.19	0.36	**3.02**
steel cans (packaging)	*15 01 04*	0.75	0.70	0.71		2.53		0.94	0.66	0.74	0.76	0.58	0.88	**9.24**
other metals (scrap metals)	*20 01 40*	2.12	3.38	0.00	4.58	3.42	1.22	5.96	3.06	1.78	2.02	2.44	2.50	**32.48**
Plastic														
plastic packaging (bottles)	*15 01 02*	4.28	3.26	3.30	3.66	4.26	3.94	3.92	8.92	4.06	5.32	3.80	4.28	**53.00**
Textiles														
textiles, non-packaging (clothes)	20 01 11								0.66	0.00	0.18			**0.84**
Batteries														
Ni-Cd batteries and accumulators	20 01 34	0.00	0.00	0.00	0.55	0.00	0.00	1.15	0.57	0.00	0.38	0.00	0.00	**2.64**
Household Hazardous Waste														
Waste mineral oils (Engine Oil)	13 07 03		0.60											**0.60**
CRT	20 01 35	5.82	4.15	5.13	5.35	1.96	2.51	4.62	4.59	4.97	4.63	1.54	3.99	49.24
SDA - Small Domestic Appliances	20 01 36	2.54	2.76	2.80	3.75	1.93	1.39	3.76	4.08	4.17	3.32	1.00	2.82	34.32
LDA - Large Domestic Appliances	16 02 14	0.00	7.74	0.00	7.03	0.00	6.82	0.00	4.57	5.06	0.00	5.84	3.43	40.49
Cold	16 02 11	0.00	3.66	0.00	3.19	0.00	2.55	0.00	2.39	2.82	0.00	3.99	1.06	19.65
WEEE	Various	8.28	**18.31**	**7.93**	**19.33**	**3.89**	**13.26**	**8.38**	**15.63**	**17.01**	**7.95**	**12.37**	**11.30**	**143.70**
Foul Water from Septic Tank Coolcaslagh CA	19 07 03	113.14	40.06	8.04	31.90	10.40	17.38	0.00	20.74		24.78	60.32	97.36	**424.12**
Flourscent Tubes	20 01 21				0.06		0.00			0.25				**0.31**

Table 2 - Waste collected on site and recovered/recycled 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 Coolcaslagh Transfer Station will continue to decrease in the next reporting as KTC will be using KWD waste facility to dispose of their waste from Q1 onwards. Household waste disposed of at the facility should remain steady with waste for recycling and recovery due to rise.

6.0 Summary Report on Emissions for the Reporting Period

a) Foul Water Emissions

Foul water from the facility, including the transfer station shed, compactor and the bin transverse area is collected in a holding tank on site and the effluent is tankered to Killarney Wastewater Treatment Plant. During 2013, 424.12 tonnes of foul effluent and silt/sludge were exported off site from the facility for treatment in Killarney Wastewater Treatment Plant. The foul water effluent is monitored quarterly and the results are sent to the Agency and available at the Coolcaslagh facility and Kerry County Council's offices.

b) Surface Water Emissions

Surface water runoff takes place from site roads and uncontaminated surfaces and discharges via silt traps to the surface water drains. An oil interceptor is fitted on the surface water discharge pipe from the bin marshalling yard.

7.0 Summary of Results and Interpretations of Environmental Monitoring

a) Dust monitoring.

The dust monitoring results were within the ELV set down in the licence

There were no issues with dust during 2013 and no complaints were received in relation to dust at the facility. The results over the years have shown no significant nuisance from dust at the facility.

It is Kerry County Council's intension to seek a technical amendment in relation to the dust monitoring requirement of Waste Licence W0072 as past monitoring indicates that the site it not causing excessive dust to the surrounding environs.

b) Noise monitoring.

There are no permanent dwellings within 1km of the waste transfer station. The facility was observed not to be contributing significantly to the ambient noise environment beyond the site boundary. The facility is not a noise nuisance to neighboring premises. An analysis of the noise results in particular the LA90 indicates that the compliance noise limit is not exceeded at any location. This facility operates within the noise limit criteria set out in the waste licence.

No tones were observed or detected by the sound level meter at any location.

There were no issues with noise during 2013 and no complaints were received in relation to noise at the facility. The results over the years have shown that the facility caused no significant noise nuisance to neighbours.

The waste transfer station does not generate noise at night-time when the facility is closed.

It is Kerry County Council's intension to seek a technical amendment in relation to the noise monitoring requirement of Waste Licence W0072 as past monitoring indicates that the site it not causing excessive noise to the surrounding environs.

Noise Monitoring - 2013 Coolcaslagh Transfer Station

Location	Run	Date Time	Laeq,T	LAF90	LAF10	LAFMax	Rated Noise Lar,T	Description of On-Site Noise	Description of Off-Site Noise	Compliant
N1	1	11/12/2013 09:30	65.0	43.00	64.00	78.00	43.00	Cars and Vans Entering and Leaving the facility	Trucks entering the adjacent quarry	n/a
N3	1	11/12/2013 10:15	52.0	43.00	53.00	76.00	43.00	Compactor Running. Cars and Vans entering the facility. People throwing bags into compactor	Engine running on neighbouring site. Quarrying noise.	n/a
N4	1	11/12/2013 09:55	55.00	37.00	60.00	83.00	55.00	Compactor Running. People throwing bags into compactor	Quarrying noise.	n/a
N5 - NSL	1	11/12/2013 10:31	46.00	35.00	48.00	68.00	35.00	Noise from Facility not audible	Flowing stream nearby. Fans running from print powder factory. Cars entering and leaving business park	Yes
	2	11/12/2013 11:00	53.00	43.00	55.00	72.00	43.00	Noise from Facility not audible	Flowing stream nearby. Fans running from print powder factory. Cars entering and leaving business park. Truck running idle in the carpark.	Yes
	3	11/12/2013 11:30	50.00	43.00	51.00	72.00	43.00	Noise from Facility not audible	Flowing stream nearby. Fans running from print powder factory. Cars entering and leaving business park.	Yes
N6 - NSL	1	11/12/2013 11:20	63.00	43.00	66.00	89.00	43.00	Noise from Facility not audible	Traffic along road. Quarry traffic and the quarry itself.	Yes
	2	11/12/2013 11:51	65.00	46.00	64.00	95.00	46.00	Noise from Facility not audible	Traffic along road. Quarry traffic and the quarry itself.	Yes
	3	11/12/2013 12:25	64.00	46.00	62.00	86.00	46.00	Noise from Facility not audible	Traffic along road. Quarry traffic and the quarry itself.	Yes

c) Monitoring of surface water
The surface water monitoring results are attached in Appendix II.

SW4 still experienced slight contamination which has been consistently above background ammonia levels. However, ammonia levels at this location have reduced during the reporting period. As effluent from the transfer station is tankered away from site it is evident that this slight contamination is not due to transfer station activity. The source of the impact is from excavation and development works upstream of landfill.

No significant impact however is noted in the main Woodford River channel (SW1, SW3A, SW6 and SW7).

d) Biological Monitoring.
Kerry County Council carried out a biological assessment of the Woodford River on 18th May, 2011. The results of the biological monitoring indicate high quality water status (Q4/5) both upstream and downstream of the waste transfer station with no evidence of any impact on the biological water quality of the Woodford River from the activities at Coolcaslagh Waste Transfer Station.

There were no issues or complaints in relation to the water quality of the Woodford River as a result of activities at the facility during 2013.

Kerry County Council will undertake an invertebrate assessment during the summer months of 2014.

e) Foul Water
The foul water emission results are attached in Appendix II. All the foul water from the facility has been transported off site to Killarney Wastewater Treatment Plant since February 2001. 424.12 tonnes of waste water was removed from the facility during 2013. This practice will continue for 2014.

f) Landfill gas
Landfill gas emission were not measured during the reporting period.

8.0 Resource and Energy Consumption Summary

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

8.1 Diesel

The diesel usage for Coolcaslagh Transfer Station for the reporting period 2013 was 1,102.24 litres this is an increase of 186 litres on the previous reporting period. The increase is due to increase activity in the recycling area. The primary usage of diesel is for the excavator on site.

8.2 Electricity

The electricity usage for the facility during the reporting period was 10,876 kWh. This is a decrease of 4,104 kWh compared to 2012.

Year	Average Electricity Usage kWh/day
2013	28
2011	47
2010	54
2009	60

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 52 m^3. This is a reduction of 40 m^3 in comparison to 2012. Water is mainly used on site for site office facilities, power washing yards, transfer station apron and hopper and washing of trucks where required. No surface water or ground water is abstracted.

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 Forthcoming Year

No development works are proposed at the facility for 2014.

11.0 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	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.

12.0 Summary of Procedures Developed by the Licensee

The following procedures were developed during the reporting period:

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

13.0 Reported Incidents and Complaints

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

14.0 Report on Financial Provision

a) Statement of Costs for Waste Operations at Facility 2013

Accelem	Accelem(T)	Total Charge Euro
60030	Wages	37,864.71
60040	Salaries	4,919.83
60100	ER PRSI	8,060.97
60200	Overtime	29,735.88
60500	Annual Leave	3,622.06
60510	Bank Holiday Leave	1,341.50
60600	Travel/Subsistence	4,990.44
61990	Other Allowances	1,524.39
65500	Minor Contracts- Trade Services & other works	53,796.17
66500	Non-Capital Equip Purchase - Fire Services	32.00
69000	Hire (Ext) - Plant/Transport/Machinery & Equipment	310.14
69200	Repairs & Maint - Plant	189.67
69250	Repairs & Maint -Computer Equip	0.00
69260	Repairs & Maint - Other Equip	35.76
69400	Transfers from Machinery Yard	6,886.50
69600	Other Vehicle Expenses	0.00
70000	Materials	895.88
70990	Issues from Stores	3,110.64
70991	Returns to Stores	-109.46
71000	Insurance	280.27
73400	Staff Travelling & Subsistence Expenses	1,662.06
75000	Computer Software and Maintenance Fees	1,550.00
76000	Communication Expenses	813.26
76100	Postage	18.00
77100	Courier	5.00
77200	Security - Property	608.00
78000	Training	23.00
79900	Consultancy/Professional Fees and Expenses	126.00
80000	Advertising	0.00
81000	Printing & Office Consumables	191.91
82100	Statutory Contributions to Other Bodies	7,455.70
85100	Rates & Other LA Charges	832.95
86000	Energy	1,802.27
99050	Refunds	234.12
	Total	**172,809.62**

b) <u>Statement of Costs for Recycling Operations at Facility 2013</u>

Accelem	Accelem(T)	Total Charge Euro
60030	Wages	9,069.08
60100	ER PRSI	1,782.35
60200	Overtime	7,065.73
60500	Annual Leave	519.83
60510	Bank Holiday Leave	268.30
60600	Travel/Subsistence	1,179.06
61990	Other Allowances	448.20
65500	Minor Contracts- Trade Services & other works	3,639.15
66500	Non-Capital Equip Purchase - Fire Services	8.01
69200	Repairs & Maint - Plant	0.00
69250	Repairs & Maint -Computer Equip	0.00
69260	Repairs & Maint - Other Equip	8.94
70000	Materials	796.40
70990	Issues from Stores	0.00
73400	Staff Travelling & Subsistence Expenses	1,388.04
75000	Computer Software and Maintenance Fees	0.00
76000	Communication Expenses	337.97
77100	Courier	3.00
77200	Security - Property	152.00
78000	Training	0.00
79900	Consultancy/Professional Fees and Expenses	54.00
80000	Advertising	0.00
81000	Printing & Office Consumables	10.45
82100	Statutory Contributions to Other Bodies	3,195.26
85100	Rates & Other LA Charges	140.15
86000	Energy	639.44
	Total	**30,705.36**

15.0 Management and Staffing Structure at 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 Operator:
Mr Mike O Donoghue

Relief Operatives:
Mr Denis Lenihan
Mr John Mannix

16.0 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 Coolcaslagh Transfer Station and Recovered/Recycled offsite during reporting period

Coolcashlagh Transfer Station Residual Waste - Tonnage Period 01/01/13 to 31/12/2013

									Non Levied Waste												
	KTC Refuse	Public Household & Commercial	* Non Weighed Waste Inclusive of Tickets	A/C Holders (Inclusive VAT)	A/C Holders (VAT Exempt)	KTC Internal Depts	KCC Internal Depts	Total Levied Waste	KCC Road Sweeping/Street Cleaning	KTC Road Sweeping/ Street Cleaning	Graveyard Waste	KCC Clean Ups / F'tipping	KUDC Clean Ups / F'tipping	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	94.04	59.3	55.00	2.12	0	0.6	0	211.06	0	10.86	0	5.94	0.84	17.64	173.7	228.94	18	228.70	18	-0.24	-0.01
January 2012	96.38	59.24	76.9	1.14	0	0.14	0	233.80	0.62	19.2	1.96	6.68	0	28.46	185.36	261.58	20	262.26	20	0.68	0.03
February 2013	72.64	53.32	19	2	0	0.56	0.82	148.34	0	9.3	1.74	4.82	0	15.86	145.2	163.54	13	164.20	13	0.66	0.05
February 2012	81.94	48.72	45.88	1.40	0.00	0.18	0.36	178.48	0.16	10.12	0	6.18	0.24	16.7	149.3	195.18	16	195.18	16	0	0.00
March 2013	92.10	56.88	48.74	2.06	0.00	0.74	0.78	201.30	0	11.92	1.4	5.34	0.28	18.94	171.5	220.92	17	220.24	17	-0.68	-0.04
March 2012	96.50	66.12	38.62	6.88	0.00	0.30	0.94	209.36	0	7.88	1.32	3.98	0.00	13.18	183.92	222.82	17	222.54	17	-0.28	-0.02
April 2013	86.66	51.66	46.72	2.84	0	0.7	2.06	190.64	0	10.8	0	7.64	1.48	19.92	163.84	211.00	16	210.56	16	-0.44	-0.03
April 2012	84.08	56.1	46.14	2.08	0	6.78	0.66	195.84	0.74	6.48	0.76	8.46	0	16.44	166.14	208.9	17	212.28	17	3.38	0.20
May 2013	72.44	62.04	48.4	2.86	0	0	0.44	186.18	0	11.28	1.5	5.92	1.62	20.32	158.10	206.74	16	206.5	16	-0.24	-0.02
May 2012	79.42	66.36	31.44	2.06	0	0.62	0.48	180.38	0.2	8.66	2.84	3.44	0.76	15.9	164.84	196.54	16	196.28	16	-0.26	-0.02
June 2013	66.44	52.98	32.02	2.82	0	0	0.42	154.68	0	10.56	3.82	3.74	0.14	18.26	140.92	186.22	14	172.94	13	-13.28	-1.02
June 2012	75.64	59.46	27.86	2.56	0	1.54	0.66	167.72	0	9.96	1.24	2.54	0.68	14.42	154.28	196.26	15	182.14	14	-14.12	-1.01
July 2013	80.12	55.80	49.46	3.88	0	0.14	0.88	190.28	0	12	3.12	5.64	1.54	22.3	163.12	200.1	16	212.58	17	12.48	0.73
July 2012	77.50	58.10	54.20	3.32	0	0	0.54	193.66	0	12.5	3.04	2.98	1.9	20.42	159.88	201.14	15	214.08	16	12.94	0.81
August 2013	88.88	57	65.6	4.22	0	0	0.12	215.82	0	7.58	1.24	5.52	0.68	15.02	165.24	231.58	17	230.84	17	-0.74	-0.04
August 2012	92.9	57	33.4	3.28	0	0.24	0.56	187.38	0	8.02	0	3.54	1.28	12.84	166.82	200.74	15	200.22	15	-0.52	-0.03
September 2013	67.38	50.56	43.18	4.2	0	0	0.08	165.40	0	10.74	1.22	6.56	0.68	19.20	141.42	184.96	14	184.6	14	-0.36	-0.03
September 2012	68.78	51.1	35.72	2.66	0	0	0.28	158.54	0	17.1	0	1.62	0.6	19.32	142.14	178.58	13	177.86	13	-0.72	-0.06
October 2013	77.96	58.44	45.78	2.08	0	0	1.92	186.18	0	14.48	0	4.94	0.58	20.00	160.40	206.61	16	206.18	16	-0.43	-0.03
October 2012	68.08	50.56	33.64	3.3	0	2.4	0.58	158.56	0	8.98	1.56	2.6	2.42	15.56	140.48	173.92	13	174.12	13	0.2	0.02
November 2013	70.18	44.92	32.6	1.56	0	0	0	149.26	0	10.08	1.5	5.64	1.7	18.92	135.58	168.3	13	168.18	13	-0.12	-0.01
November 2012	67.32	50.68	44.32	4.78	0	1.86	0.66	169.62	0.16	7.1	0	3.42	1.34	12.02	137.32	181.44	14	181.64	14	0.2	0.01
December 2013	88.34	48.64	47.8	4.04	0	0	0.58	189.40	0	16.7	0	8.52	0.46	25.68	167.28	215.14	16	215.08	16	-0.06	0.00
December 2012	79.4	49.64	32.78	1.7	0	4.88	0	168.40	0	9.74	2	5.9	4.5	22.14	157.76	190.6	15	190.54	15	-0.06	0.00
Total Tonnage 2013	957.18	651.54	534.30	34.68	0.00	2.74	8.10	2188.54	0.00	136.30	15.54	70.22	10.00	232.06	1886.30	2424.05	186	2420.60	186	-3.45	
Total Tonnage 2012	967.94	673.08	500.90	35.16	0.00	18.94	5.72	2201.74	1.88	125.74	14.72	51.34	13.72	207.40	1908.24	2407.70	186	2409.14	186	1.44	
Grand Total										232.06					Overall Total Average Variance Per Load					-0.02	

Appendix II - <u>Results of Foul and Surface Water Monitoring</u>

Quarterly Monitoring Results SW1

								Parameter	Ammonium	pH	BOD (5day	Conductivi	Chemical (	Chloride	Dissolved	Suspended	Temperatu
									NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem
Location	Location E	Location N	Sample Date	Sample Tir	Sample M	Sampled By	Reason	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C
Sw1A (New Site)	102224	91786	09-Jan-13	13:15	Grab	Tómas Ó Sullivan	Compliance		< 0.02	6.9	< 1	96	21	13.6	11.5	2	6.5
Sw1A (New Site)	102224	91786	09-Apr-13	12:12	Grab	Michael O Sullivar	Compliance		0.09	7.9	< 1	113	23	19.3	5.9	< 1	5.9
Sw1A (New Site)	102224	91786	03-Jul-13	11:36	Grab	Derry Bowler	Compliance		0.04	7.1	1.2	124	16	15	10.2	< 1	14.9

Quarterly Monitoring Results SW3 & SW3a

							Parameter	Ammonium	pH	BOD (5day	Conductivi	Chemical (	Chloride	Dissolved	Suspended	Temperatu
								NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem
Location	Location Ea	Location No	Sample Da	Sampled By	Reason	Comments		mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C
Sw3	101859.3	91642.2	16-Oct-13	Michael O Sullivan	Complian			0.14	7.1	3.3	124	69	19.9	10.1	22	11.8

						Parameter	Ammonium	pH	BOD (5day	Conductivi	Chemical (	Chloride	Dissolved	Suspended	Temperatu
							NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem
						Max.	--	9	--	--	--	--	15	--	--
						Target	--	--	--	--	--	--	--	--	--
						Min.	--	6	--	--	--	--	5	--	--
Location	Location E	Location N	Sample Da	Sample Tir	Reason	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C
Sw3A	101840.8	91649	09-Jan-13	12:10	Complian		0.03	6.6	1	120	27	15.1	11.6	6	5.9
Sw3A	101840.8	91649	03-Jul-13	11:15	Complian		0.06	7	1.3	134	18	15.8	9.4	< 1	14.6

Quarterly Monitoring Results SW4 & SW4a:

						Parameter	Ammoniun	pH	BOD (5day	Conductivi	Chemical (	Chloride	Dissolved (	Suspende	Temperatu
							NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem
						Max.	--	9	--	--	--	--	15	--	--
						Target	--	--	--	--	--	--	--	--	--
						Min.	--	6	--	--	--	--	5	--	--
	Location	Location E	Location N	Sample Da	Reason	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C
	Sw4	101880	91659	16-Oct-13	Compliance		0.12	7.1	3.2	123	78	20.1	10.1	14.5	12.4

									Parameter	Ammoniun	pH	BOD (5day	Conductivi	Chemical (	Chloride	Dissolved (	Suspende	Temperatu
										NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem
									Max.	--	9	--	--	--	--	15	--	--
									Target	--	--	--	--	--	--	--	--	--
									Min.	--	6	--	--	--	--	5	--	--
	Location	Location E	Location N	Sample Da	Sample Ti	Sample M	Sampled E	Reason	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C
	SW4A @ manhole	101927	91604	09-Jan-13	12:30	Grab	Tómas Ó S	Compliant		0.26	7.5	2.2	157	21	15.4	11.7	19	6

Quarterly Monitoring Results SW5:

								Parameter	Ammoniun	pH	BOD (5day	Conductivi	Chemical (	Chloride	Dissolved (	Suspende	Temperatu
									NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem
								Max.	--	9	--	--	--	--	15	--	--
								Target	--	--	--	--	--	--	--	--	--
								Min.	--	6	--	--	--	--	5	--	--
	Project	Location	Location E	Location N	Sample Date	Sample Ti	Reason	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C
	Coolcaslagh	Sw5	101794.7	91628.4	09-Jan-13	12:00	Compliance		0.02	7.1	1.1	100	19	14.1	11.7	10	6
	Coolcaslagh	Sw5	101794.7	91628.4	09-Apr-13	11:42	Compliance		0.07	7.5	< 1	120	22	19	5.5	1	5.5
	Coolcaslagh	Sw5	101794.7	91628.4	03-Jul-13	11:20	Compliance		0.06	7	1.1	133	16	15.7	9.5	< 1	14.2
	Coolcaslagh	Sw5	101794.7	91628.4	16-Oct-13	11:45	Compliance		0.15	7.1	3.4	125	69	20.1	10.2	19	11.7

Quarterly Monitoring Results SW6:

						Parameter	Ammonium	pH	BOD (5day	Conductivit	Chemical C	Chloride	Dissolved C	Suspended	Temperatu
							NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem
	Location	Location Ea	Location No	Sample Date	Reason	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C
	Sw6	100842.9	91303.3	09-Jan-13	Compliance		0.05	7.2	< 1	104	16	14.7	12	< 1	6
	Sw6	100842.9	91303.3	09-Apr-13	Compliance		0.14	7.6	< 1	129	17	18.7	6.1	< 1	6.1
	Sw6	100842.9	91303.3	03-Jul-13	Compliance		0.03	7.5	1	146	10	16.6	9.9	1.5	14.1
	Sw6	100842.9	91303.3	16-Oct-13	Compliance		0.15	7.2	4.2	121	76	19.4	10.7	33.5	11.6

Quarterly Monitoring Results SW7:

							Parameter	Ammonium	pH	BOD (5day	Conductivi	Chemical C	Chloride	Dissolved	Suspended	Temperatu
								NH4	Physchem	O2	Physchem	O2	Cl	O2	Physchem	Physchem
	Project	Location	Location E	Location N	Sample Date	Reason	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	mg/l	mg/l	Degrees C
	Coolcaslagh	Sw7	99256.5	90467.4	09-Jan-13	Compliance		< 0.02	7.3	< 1	108	29	14.8	12.1	6	6.3
	Coolcaslagh	Sw7	99256.5	90467.4	09-Apr-13	Compliance		< 0.02	7.9	< 1	145	17	22.4	6.9	< 1	6.9
	Coolcaslagh	Sw7	99256.5	90467.4	03-Jul-13	Compliance		< 0.02	7.7	1	148	< 10	16.8	10.5	1	13.1
	Coolcaslagh	Sw7	99256.5	90467.4	16-Oct-13	Compliance		0.15	7.4	5.5	120	85	18.4	10.8	76	11.4

Foul Water Monitoring:

							Parameter	Ammoniun	pH	BOD (5day	Conductivi	Chemical C	Suspended	Temperature	Appearance	Odour	Oils/Fats & Grease
								NH4	Physchem	O2	Physchem	O2	Physchem	Physchem		Physchem	OFG
							Max.	--	9	--	--	--	--	--	--	--	--
							Target	--	--	--	--	--	--	--	--	--	--
							Min.	--	6	--	--	--	--	--	--	--	--
	Project	Location	Location E	Location N	Sample Da	Reason	Comments	mg/l	pH units	mg/l	µS/cm	mg/l	mg/l	Degrees C	Descriptive	Descriptive	mg/l
	Coolcaslagh	FE1	101931.1	91545.6	09-Jan-13	Compliance		1.81	6.8	37.8	565	131	36	9	slightly cloudy	mild sewage smell	< 2
	Coolcaslagh	FE1	101931.1	91545.6	03-Jul-13	Compliance		51.02	6.6	339	1158	588	81	13.5	blackish	Septic/ Anaerobic sewage odour	3.7
	Coolcaslagh	FE1	101931.1	91545.6	16-Oct-13	Compliance		56.46	7.3	287	2150	634	120	14.5	Grey/cloudy	Anaerobic/oily	10.4

Appendix III - Results of Dust Monitoring

southern scientific services ltd.

OUR REF: RP 2013 | KERRY COUNTY COUNCIL – COOLCASLAGH | 01 PAGE 01 | 01

ANALYSIS REPORT

CUSTOMER:	KERRY COUNTY COUNCIL	SAMPLE TYPE:	DUST
ADDRESS:	Environment Section, Main Street, Tralee, County Kerry	CONDITION OF SAMPLE ON RECEIPT:	Satisfactory
		DATE SAMPLED:	30 Days
REPORT TO:	TARA O CARROLL	DATE RECEIVED:	01 November 2013
SAMPLED BY:	John Mannix, Kerry County Council	DATE ANALYSED:	06 – 19 November 2013
SAMPLING PT:	Coolcaslagh Transfer Station	DATE REPORTED:	20 November 2013
ORDER NO:	400 327 048	WORK NO.:	29254 C | 12P-101 |

TABLE OF RESULTS

METHOD:	LAB REF:	YOUR REF:	TOTAL PARTICULATES $mg/m^2/day$	INORGANIC PARTICULATES $mg/m^2/day$
SCP 039	C13-Nov 007	Station 1	113	79
SCP 039	C13-Nov 008	Station 2	166	109
SCP 039	C13-Nov 009	Station 3	134	76

Karen Lavery
Chemistry Laboratory

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

(registered office)
dunrine | killarney | county kerry | ireland | telephone +353 (0)64 6633922 | fax +353 (0)64 6639022
web site www.southernscientificireland.com | e-mail info@southernscientificireland.com

directors: K. Murphy, M. Murphy & C. Murphy
registered in ireland no 323196 | vat reg no IE 6343196 M

Appendix IV – Results of Noise Monitoring

Environmental Efficiency
Consulting Engineers
Bray (Co. Wicklow) 01 276 1428
Lisburn (Co. Antrim) 028 9262 6733

Environmental Noise Survey 2013

at

Coolcaslagh WTS, Coolcaslagh, Killarnay, Co. Kerry

for

Kerry County Council

Waste licence: W072-01

Document Number: 1492-02

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

QF 1. v2 Document Lead Sheet

Document Title	Environmental Noise Survey 2013 at Coolcaslagh WTS, Coolcaslagh, Killarnay, Co. Kerry
Project No.	1492
Document No.	1492-02
Client	Kerry County Council
Address	Coolcaslagh WTS, Coolcaslagh, Killarnay, Co. Kerry

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

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

Conditions relating to the issue of this report:

1. No alteration to this report by third parties is permitted

2. Where this report is reproduced, it shall only be reproduced in full.

3. Reports remain the property of Environmental & Efficiency Consultants (Ireland) Limited until paid for in full.

Table of Contents

1. Introduction

Kerry County Council has a Waste Licence (W072-01) at their Waste Transfer Facility (WTF) at Coolcaslagh, Killarney, 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
N1	No	N/A
N3	No	N/A
N4	No	N/A
N5	Yes	Compliant
N6	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 hour 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
N1	At facility entrance	No
N3	Boundary at rear of Transfer Station	No
N4	Boundary adjacent to sand quarry	No
N5	NSL north of Transfer Station	Yes
N6	NSL south of Transfer Station	Yes

Photographs of each monitoring location are shown 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

	First Set			Second set		
Equipment	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 less than 5 m/s (the normal upper limit for taking measurements). 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 09:15	2.0	10.0	Mostly cloudy
Mid survey	11/12/2013 10:55	2.5	11.0	Mostly cloudy
End survey	11/12/2013 12:31	2.1	11.0	Partly 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

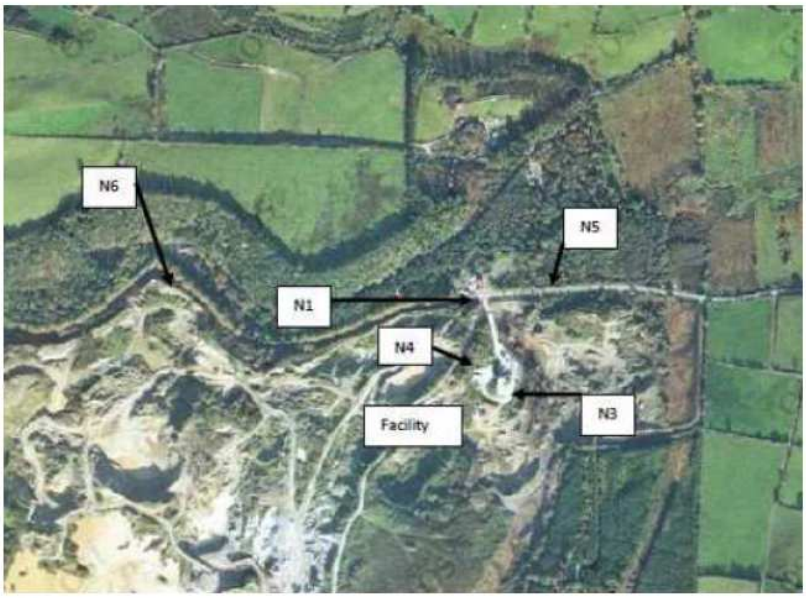

Figure 5-1 Site map

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, its products 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
N1	0	100	N/A
N3	0	100	N/A
N4	0	100	N/A
N5	85	15	N/A
N6	75	25	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 N1

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	L_{AFmax}	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 09:31	65	43	64	78	N/A	N/A	**43**	Cars and vans entering the facility	Trucks entering adjacent quarry	N/A

6.2 N3

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	L_{AFmax}	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 10:15	52	43 *	53	76	N/A	N/A	**43**	Compactor running Cars and vans entering the facility. People throwing bags of rubbish in to compactor	Engine running from neighbouring site. Quarrying noise	N/A

6.3 N4

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	L_{AFmax}	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 09:55	55	37	60	83	N/A	N/A	**55**	Compactor running. People throwing bags of rubbish in to compactor	Quarrying noise	N/A

6.4 N5 (NSL)

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	L_{AFmax}	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 10:31	46	35 *	48	68	No	No	**35**	Noise from facility not audible	Flowing stream nearby. Fans running from print powder factory. Cars entering/exiting business park	Yes
Daytime	2	Second set	11/12/2013 11:00	53	43 *	55	72	No	No	**43**	Noise from facility not audible	Flowing stream nearby. Fans running from print powder factory. Cars entering/exiting business park. Truck parked and ran idle in the carpark	Yes
Daytime	3	Second set	11/12/2013 11:30	50	43 *	51	72	No	No	**43**	Noise from facility not audible	Flowing stream nearby. Fans running from print powder factory. Cars entering/exiting business park	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

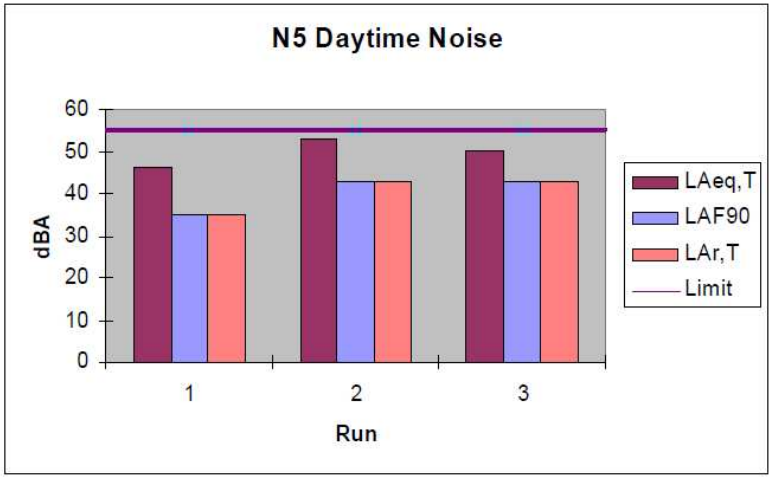

Figure 6-1 N5 Noise Graph

6.5 N6 (NSL)

Period	Run	Equipment	Date/Time	LAeq,T	LAF90	LAF10	L_{AFmax}	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 11:20	63	43 *	66	89	No	No	**43**	Noise from facility not audible	Traffic along the road. Quarry traffic and the quarry itself	Yes
Daytime	2	First set	11/12/2013 11:51	65	46 *	64	95	No	No	**46**	Noise from facility not audible	Traffic along the road. Quarry traffic and the quarry itself	Yes
Daytime	3	First set	11/12/2013 12:25	64	46 *	62	86	No	No	**46**	Noise from facility not audible	Traffic along the road. Quarry traffic and the quarry itself	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

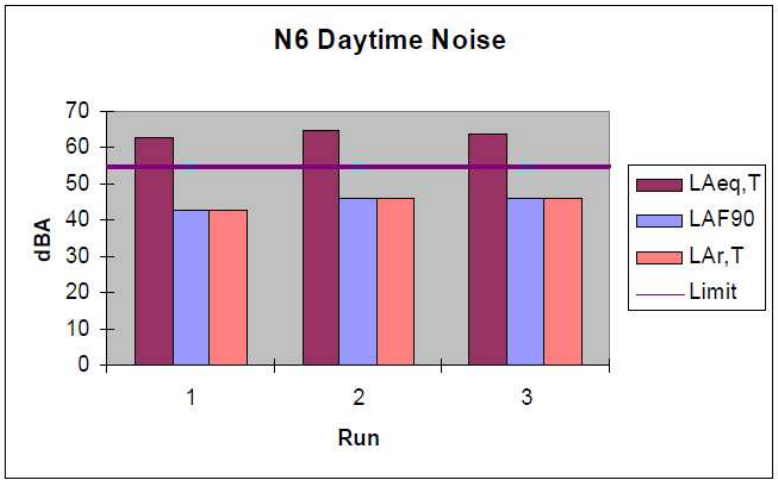

Figure 6-2 N6 Noise Graph

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
N5	Daytime	Yes	No	No	No
N6	Daytime	Yes	No	No	No

8. Conclusion

Noise levels recorded at Coolcaslagh 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 $L_{Ar,T}$	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_{AF900} 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. Parnelll 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	LSPO1448
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	**Approved by**	Paul Hetherington
Date of Calibration	07 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)

Glas Nalon | Baile Átha Cliath 11 | Éire
Glasnevin | Dublin 11 | Ireland T+ 353 1 808 2600 | F+353 1 808 2603 | NSAI.ie

Page 1 of 3

NSAI
National Metrology Laboratory

Certificate of Calibration

Issued to	Environmental Efficiency Consultants Ireland Ltd. Parnelll 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 DS360 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	Sam Boles	**Approved by**	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)

Glas Naíon | Baile Átha Cliath 11 | Éire
Glasnevin | Dublin 11 | Ireland T+ 353 1 808 2600 | F+353 1 808 2600 | NSAI.ie

Page 1 of 8

Appendix 3 Certificates of Calibration CR:811C

Certificate of Calibration

Cirrus Research plc
dedicated to noise measurement

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 T.A. Goodhil

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, Hunmanby, North Yorkshire, YO14 0PH
Telephone: +44 (0) 1723 891655 Fax: +44 (0) 1723 891742
Email: sales@cirrusresearch.co.uk

Certificate of Calibration

Cirrus Research plc
dedicated to noise measurement

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 subsitituting 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. Goodhill

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 Locations

Figure 8-1 N1

Figure 8-2 N3

Figure 8-3 N4

Figure 8-4 N5

Figure 8-5 N6

Appendix V - AER/PRTR Return 2013

| PRTR# : W0072 | Facility Name : Coolcaslagh Transfer Station | Filename : W0072_2013(1).xlsm | 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	Coolcaslagh Transfer Station
PRTR Identification Number	W0072
Licence Number	W0072-01

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	Coolcaslagh
Address 2	Killarney
Address 3	Co. Kerry
Address 4	
	Kerry
Country	Ireland
Coordinates of Location	-9.43193 52.0657
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

Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	2
User Feedback/Comments	Treatment/Transfer Tab 2012 2013 comparison: changed 130204 to 130703 as per ENVA records Changed od destination of 130703 to KS Recycling, Raiffeisenstr 38 Sonsbeck Germany - 2.37t 150101 +5.36t 150102 +13.36t 150104 +0.8t 150107 -0.6t 160211 +5.71t change of destination as ERP records to EWM ltd 160214 +15.85t 200101 +11.18t 200111 +0.76t 200121 +0.19t 200134 +2t 200135 +2.47t 200136+8.33t 200140 +11.26t change of destination United Metals Limerick 200301 changed to 150106 +1.06t 200301 +12.t
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(c)	Installations for the disposal of non-hazardous waste
5(c) 50.1	Installations for the disposal of non-hazardous waste General

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

Is it applicable?	Yes
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) ?	

4.1 RELEASES TO AIR Link to previous years emissions data | PRTR# : W0072 | Facility Name : Coolcaslagh Transfer Station | Filename : W0072_2013(1).docx | Return Year : 2013 | 11/03/2014 17:42

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
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
03	Carbon dioxide (CO2)	C	OTH	Gas SIM Model	281000.0	281000.0	0.0	0.0
01	Methane (CH4)	C	OTH	Gas SIM Model	126000.0	126000.0	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 AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
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 AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
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

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: Coolcaslagh Transfer Station

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: Designation or Description	Facility Total Capacity m3 per hour	
Total estimated methane generation (as per site model)	0.0				N/A	
Methane flared	0.0				0.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A	

4.2 RELEASES TO WATERS

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT						QUANTITY		
			Method Used					
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						QUANTITY		
			Method Used					
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						QUANTITY		
			Method Used					
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

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			
			Method Used					
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			
			Method Used					
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

4.4 RELEASES TO LAND

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

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

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

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

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

10

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					
To Other Countries	13 07 03	Yes	0.6	other fuels (including mixtures)	R9	M	Weighed	Abroad	Enva,W0184-1	Clonminam Industrial Estate,,,Portlaoise,County Laois,Ireland	KS Recycling ,12 150 80 80,Raiffeisenstr 38,Sonsbeck,,,,Germany	Raiffeisenstr 38,Sonsbeck,,,,Germany
Within the Country	15 01 01	No	76.98	Cardboard	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	53.0	plastic packaging	R3	M	Weighed	Offsite in Ireland	Dillon Waste Ltd,WFP-KY-10-001	The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	15 01 04	No	12.26	metallic packaging	R4	M	Weighed	Offsite in Ireland	Dillon Waste Ltd,WFP-KY-10-001	The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	15 01 07	No	86.5	glass packaging	R5	M	Weighed	Offsite in Ireland	Dillon Waste Ltd,WFP-KY-10-001	The Kerries,,,Tralee,County Kerry,Ireland		
To Other Countries	**16 02 11**	**Yes**	19.65	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,Bently Road South,,,Darlston,WS10 8LW west Midlands,United Kingdom	Bently Road South,,,Darlston,WS10 8LW west Midlands,United Kingdom
To Other Countries	16 02 14	No	40.49	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	146.02	News and Pams	R3	M	Weighed	Offsite in Ireland	Dillon Waste Ltd,WFP-KY-10-001	The Kerries,,,Tralee,County Kerry,Ireland		
Within the Country	20 01 11	No	0.84	textiles	R3	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,WPR 014/2	Belgard Road,Tallaght,Dublin,24,Ireland		
To Other Countries	20 01 21	Yes	0.31	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	2.64	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	49.24	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	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	34.32	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	32.48	metals	R4	M	Weighed	Offsite in Ireland	United Metals,WFP-LK-2013-147A-R1	Eastway Business Pk,Ballysimon Road,Limerick,,,Ireland		
Within the Country	15 01 06	No	8.78	mixed packaging	R3	M	Weighed	Offsite in Ireland	Killarney Waste Disposal,W0217-01	Aughacureen,,,Killarney ,County Kerry,Ireland		
Within the Country	20 03 01	No	2420.6	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	North Kerry Landfill,W001-04	Muingnaminane,,,Tralee,County Kerry,Ireland		
Within the Country	19 07 03	No	424.12	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Irish Water Killarney WWTP,D0037-01	Ross Road,Killarney,,,,Ireland		

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