Kerry County Council

Waste Licence Ref No. W0087-01

REPORT TITLE

Caherciveen Transfer Station
Annual Environmental Report

Reporting Period:

January 2012 – December 2012

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

March 2013

1.0 Introduction

Kerry County Council operates a waste transfer and recycling facility located in the townland of Inchamacteige, approximately 3 km south east of the town of Caherciveen, Co. Kerry. The site is accessed via a small access road branching off the county road L7006 which intersects with the N70 approximately 2 km to the north of the site.

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

Other activities include the recycling or reclamation of inorganic materials including metals, glass, steel and aluminium cans, car batteries, dry cell batteries, fluorescent tubes, domestic hazardous waste, cardboard, plastic bottles and newspapers. Small quantities of organic waste are also collected for transfer to North Kerry Landfill for composting.

This Annual Environment Report is prepared in accordance with Condition 2.8 and Schedule B of Waste Licence W0087-01 issued by the Environmental Protection Agency (EPA).

2.0 Reporting Period

The reporting period for this Annual Environmental Report is 1st January 2012– 31st December 2012.

3.0 Waste Activities Carried out at the Facility

Waste disposal activities carried out at Caherciveen Transfer Station are in accordance with Part 1 of Waste Licence W0087-01 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 Caherciveen Transfer Station are in accordance with Part 1 of Waste Licence W0087-01 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 2012

Waste tonnage disposed of at Caherciveen Transfer Station during the reporting year (2012) decreased by 46% on the previous year (2011). This is primarily due the selling of Kerry County Council's Refuse Collection Service in November 2011 (370.06 tonnes) there has also been a 61% (223.82 tonnes) reduction in the quantity of waste being disposed of by members of the public, this is due to the economic downturn. The quantity of construction and demolition waste delivered directly to the facility has significantly reduced.

The weight of the waste accepted into Caherciveen Transfer Station Facility for disposal for the reporting period was 557.46 tonnes. This comprises of the following breakdown:

Waste for Disposal	***Tonnes 2012***
Municipal waste collected by Local Authority & Private Contractors	0
Commercial & Industrial	37.64
Road Sweepings & Graveyard Waste	30.86
Flytipping	16.4
Public Domestic	472.86
Total for Disposal	**557.46**

Table 1 Waste Stream Breakdown for reporting Period.

Overall the quantities of waste sent for recycling is comparable to last year. Waste sent for recycling during the reporting period compared with previous years is outlined in Table 2 below.

Waste for Recycling & Recovery	***Tonnes 2012***
Metals	20
Glass	23.48
Aluminium and Steel Cans	3.64
Batteries	0.03
Newspapers	52.88
Cardboard	10.26
Fluorescent Tubes	0.28
Plastic Bottles	11.58
Waste Engine Oil	0.98
WEEE	61.65
Dry Recyclables	12.68
Textiles	1
Total for Recycling/Recovery	**198.46**

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

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

5.0 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 Caherciveen Transfer Station will continue to decrease in the next reporting period mainly due to the weak economic environment and the increasingly competitive waste industry.

6.0 Summary Report on Emissions for the Reporting Period

a) Foul Water Emissions

The foul water discharge is monitored quarterly. The results are sent to the EPA and are also available at the Caherciveen facility. No significant exceedances of limits were noted during this reporting period. A Puraflow Wastewater Treatment Unit is installed at the facility to treat all foul waters from the site.

b) Surface Water Emissions

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

c) Waste from Silt Traps and Interceptors

A total of 5.44 Tonnes of silt/sludge and wastewater were removed from the silt trap and the foul water treatment unit during the reporting period and disposed of at Tralee Wastewater Treatment Plant.

7.0 Summary of Results and Interpretations of Environmental Monitoring

a) Dust monitoring

Dust Monitoring was carried out at the facility in September/October 2012. The dust monitoring results were within the emission limit value specified in the licence.

There were no issues with dust during 2012 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 W0087 as past monitoring indicates that the site it not causing excessive dust to the surrounding environs.

b) Noise monitoring.

Caherciveen waste transfer station is not a significant contributor to the ambient noise environment in the area. There were no steady or continuous noise emissions from the facility. The facility does not constitute a nuisance for the nearest noise sensitive receptors. The measured LA90 or background noise levels, which excludes noise from traffic and aircraft, were well below the 55dB(A) noise limit, ranging between L90 22dB(A) to 32dB(A), reflecting the quiet and rural nature of the location.

There were no issues with noise during 2012 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 W0087 as past monitoring indicates that the site it not causing excessive noise to the surrounding environs.

c) Monitoring of surface water.

The surface water monitoring results are attached in Appendix II. Significant deterioration in status at SW5 was noted in recent years by high level of Ammonia. This has been borne out by recent measurements

An examination of discharge from transfer station since 2003 i.e. ***Se1*** shows ***an effluent of acceptable quality.***

The contamination at SW5 would therefore seem to indicate that elevated levels (***8.69 mg/L NH4***, on 10th Oct last) are due to legacy or old landfill activities

As indicated in earlier reports the nearest point on Carhan downstream of landfill/transfer station still denotes a ***Q value =4*** which denotes a water of good quality.

The point on stream which is a tributary of Carhan stream , just downstream of transfer station also scores quiet highly on SSRS investigation. A summary of Biological report from 2010 is included with this report

However the impact from transfer station or old legacy landfill activities while they may not yet be evident on surface water quality does not eliminate possibility of a future impact. An investigation into impact on groundwater from closed landfills, including Cahersiveen, is currently underway. We intend to submit a report on this before July 2013.

d) Foul Water

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

e) Landfill gas

The levels of methane gas and carbon dioxide recorded have reduced significantly (2012 average **CH_4** – 0.8 % v/v, & **CO_2 -** 0.4% v/v) compared to 2008 and 2009. The landfill gas monitoring results are attached in Appendix III.

8.0 Resource and Energy Consumption Summary

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

8.1 Diesel

The diesel usage for Caherciveen Transfer Station for the reporting period 2012 was 1,696 litres. The primary usage of diesel is for the rubber tyred excavator on site, waste compactor and the oil burner in the steam washer.

8.2 Electricity

The electricity usage for the facility during the reporting period was 4,900 kilowatt hours. This is a reduction of 1,287 kWh on the previous year

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

8.3 Water

Water supply is from a groundwater borehole on site. Water usage for the facility during the reporting period was estimated to be 80,000 litres. Water is mainly used on site for power washing yards, transfer station apron and hopper and washing of trucks where required.

9.0 Resource and Energy Consumption Summary

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

10.0 Timescale for Proposed Development Works For Forthcoming Year

No development works are proposed at the facility for 2013.

11.0 Schedule of Environmental Objectives and Targets for the Forthcoming Year

Target Area	***Objective***	***Works Required***
Surface Water Emissions	Keep Surface Water Emissions within agreed limits	Regular inspection of surface water drains. Regular monitoring of results from Surface Water Monitoring Points.
Litter – On public roads to facility	Reduction in the number of bags of waste/litter lost from trailers on the way to the facility	Regular inspections and clean up of approach roads. Quick response to clean up any reported waste on the approach roads to the facility
Energy Resources	Reduce the quantity of diesel and electricity used on site	Avail of night rate tariffs for electricity
Waste Records		Introduction of new computer system on site to record waste transactions with connection to KCC network

12.0 Report on Progress towards achievement of the 2012 Environmental Objectives and Targets

Objective	***Target***	***Progress***
Keep Surface Water Emissions within limits	Regular monitoring & Inspections	Ongoing
Reduction in Litter on Public Roads to facility	Regular inspection & clean up of roads	Reducing & Ongoing
Reduction in use of Energy Resources	Reduce quantity of diesel and electricity used on site	Decreasing & Ongoing
Increase collection of Cardboard and Textiles	Increase promotion & marketing	Ongoing
Purchase lands to facilitate widening of access road to site	Reach agreement with landowner by December 2011	Ongoing

13.0 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

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

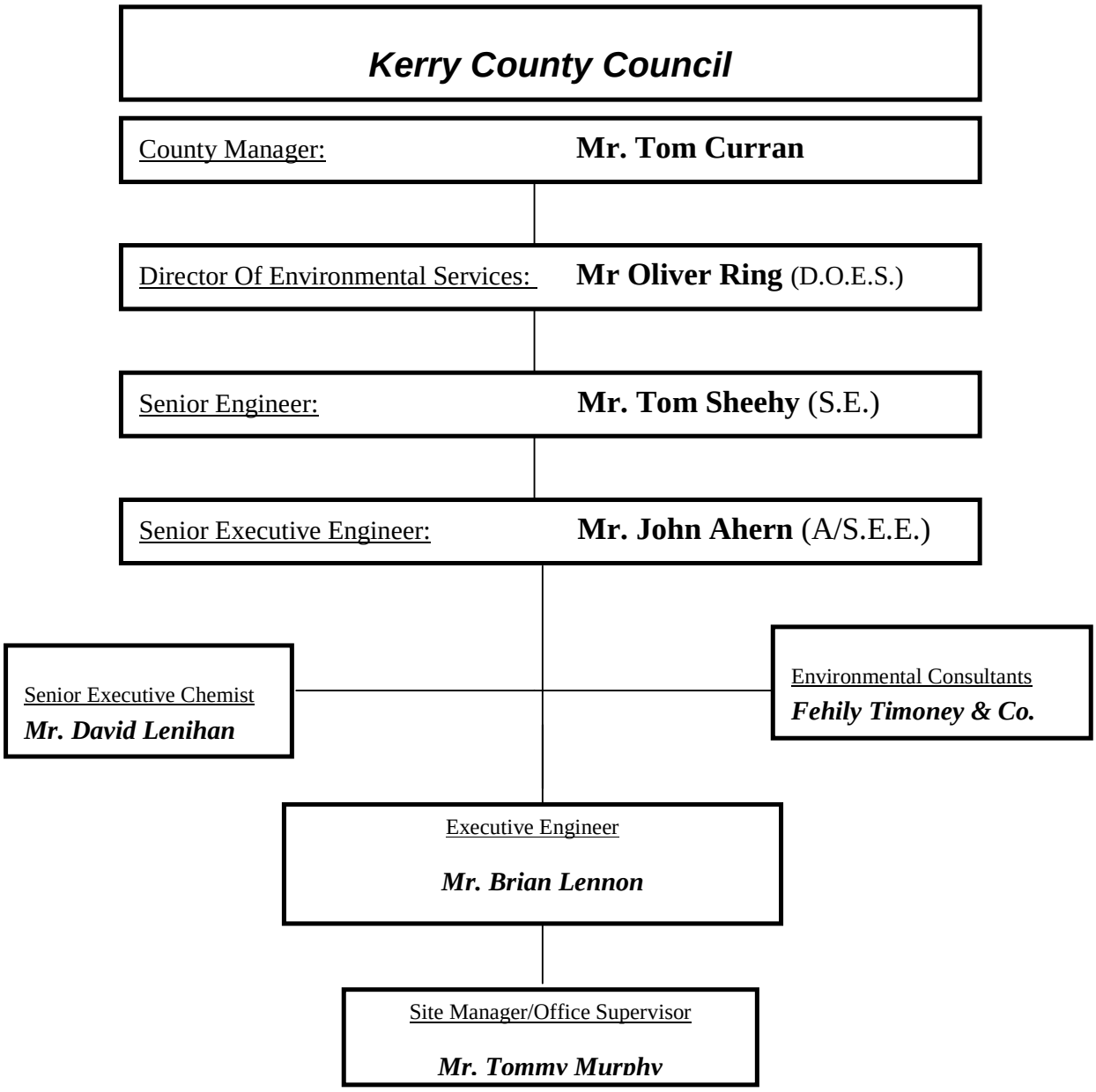
a) Statement of Costs for Waste Operations at Facility

Accelem	Accelem(T)	Total Charge Euro
60030	Wages	28,046.24
60040	Salaries	8,170.19
60100	ER PRSI	5,444.14
60200	Overtime	11,821.00
60500	Annual Leave	3,269.90
60510	Bank Holiday Leave	939.05
60600	Travel/ Subsistence	2,947.65
61990	Other Allowances	1,643.40
65500	Minor Contracts- Trade Services & other works	17,448.24
65965	Transfer to/ from Cap/ Rev (Exp)	0.00
66500	Non-Capital Equip Purchase - Fire Services	78.40
67500	Non-Capital Equip Purchase - Computers	9.90
69000	Hire (Ext) - Plant/ Transport/ Machinery & Equipment	210.00
69200	Repairs & Maint - Plant	1,275.71
69250	Repairs & Maint -Computer Equip	0.00
69260	Repairs & Maint - Other Equip	22.40
69400	Transfers from Machinery Yard	2,632.50
69600	Other Vehicle Expenses	95.00
70000	Materials	329.55
70990	Issues from Stores	5,050.44
70991	Returns to Stores	-315.19
71000	Insurance	146.75
73400	Staff Travelling & Subsistence Expenses	2,072.89
75000	Computer Software and Maintenance Fees	-2,264.00
76000	Communication Expenses	587.32
77200	Security - Property	350.00
78000	Training	42.11
79900	Consultancy/ Professional Fees and Expenses	296.80
80000	Advertising	0.00
81000	Printing & Office Consumables	152.02
82100	Statutory Contributions to Other Bodies	5,153.20
85100	Rates & Other LA Charges	0.00
86000	Energy	2,035.15
	Total Waste Operational Cost 2012	97,690.76

b) Statement of Costs for Recycling Operations at Facility

Accelem	Accelem(T)	Total Charge Euro
60030	Wages	6,311.29
60040	Salaries	2,350.20
60100	ER PRSI	1,353.19
60200	Overtime	2,880.52
60500	Annual Leave	1,039.66
60510	Bank Holiday Leave	402.45
60600	Travel/ Subsistence	685.50
61990	Other Allowances	336.15
65500	Minor Contracts- Trade Services & other works	2,461.41
66500	Non-Capital Equip Purchase - Fire Services	19.60
67500	Non-Capital Equip Purchase - Computers	426.19
69200	Repairs & Maint - Plant	113.66
69250	Repairs & Maint -Computer Equip	0.00
69260	Repairs & Maint - Other Equip	5.60
70000	Materials	72.00
70990	Issues from Stores	0.00
73400	Staff Travelling & Subsistence Expenses	1,169.08
76000	Communication Expenses	192.56
77200	Security - Property	150.00
78000	Training	0.00
79900	Consultancy/ Professional Fees and Expenses	127.20
80000	Advertising	0.00
81000	Printing & Office Consumables	0.00
82100	Statutory Contributions to Other Bodies	2,208.52
85100	Rates & Other LA Charges	0.00
86000	Energy	386.40
	Total Recycling Operational cost 2012	**22,691.18**

16.0 Management and Staffing Structure at Facility 2012



17.0 Programme of Public Information

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

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

Appendix I - Waste Collected at Caherciveen Transfer Station and Recovered/Recycled offsite during reporting period

	KCC Refuse	KTC Refuse	Public Car Household	Public Commerical	* Non weighed waste inclusive of tickets	A/C Holders (VAT Inclusive)	A/C Holders (VAT Exempt)	KCC Internal Depts	Total Levied Waste	Road Sweeping/Street Cleaning	Graveyard Waste	Clean Ups / F'tipping	Total Non - levied	Total of Waste Over Weighbridge	Total Waste Out
January 2012	**0**	**0**	**30.72**	**0**	**18.84**	**3.54**	**2.36**	**0**	**55.46**	**1.86**	**1.10**	**1.24**	**4.2**	**40.82**	**59.82**
January 2011	48.96	0	39.28	0	22.36	4.24	0	0.54	115.38	4.02	0	2.68	6.7	99.72	122.08
February 2012	**0**	**0**	**18.82**	**0**	**14.34**	**1.46**	**0**	**0**	**34.62**	**2.32**	**0**	**1.16**	**3.48**	**23.76**	**38.02**
February 2011	24.3	0	25.58	0	0	6.5	0	0.48	56.86	1.78	0	1.8	3.58	60.44	59.38
March 2012	**0**	**0**	**20.18**	**0**	**8.00**	**2.54**	**0.88**	**3.48**	**35.08**	**1.26**	**0**	**0.38**	**1.64**	**28.72**	**35.74**
March 2011	27.78	0	29.78	0	34.44	3.42	0	0.44	95.86	2.06	0	2.44	4.50	65.92	100.36
April 2012	**0**	**0**	**26.92**	**0**	**12.64**	**2.72**	**0**	**0.14**	**42.42**	**3.08**	**0**	**1.14**	**4.22**	**34.00**	**47.24**
April 2011	19.68	0	32.22	0	17.14	2.82	0	0	71.86	2.18	0.32	5.76	8.26	62.98	80.12
May 2012	**0.00**	**0**	**24.50**	**0**	**20.38**	**1.80**	**0.00**	**0.52**	**47.20**	**1.56**	**0.00**	**0.82**	**2.38**	**29.20**	**49.68**
May 2011	33.6	0	26.64	0	13.22	2.42	0	0.72	76.60	1.32	0.52	2.84	4.68	68.06	81.28
June 2012	**0**	**0**	**23**	**0**	**21.38**	**1.32**	**1.76**	**0**	**47.46**	**2.6**	**0**	**1.62**	**4.22**	**30.30**	**52.42**
June 2011	28.1	0	33.04	0	2.54	6.92	0	0.54	71.14	1.96	0	3.58	5.54	74.14	76.68
July 2012	**0**	**0**	**31.38**	**0**	**11.36**	**3.04**	**0**	**0**	**45.78**	**1.88**	**0**	**3.68**	**5.56**	**39.98**	**50.06**
July 2011	40.96	0	35.48	0	25.66	4.8	0	0	106.90	3.06	0	5.26	8.32	89.56	115.22
August 2012	**0**	**0**	**32.92**	**0**	**19.5**	**3.84**	**0**	**0**	**56.26**	**4.96**	**0**	**2.78**	**7.74**	**44.50**	**64.2**
August 2011	62.58	0	43.28	0	10.36	10.08	0	0	126.3	3.42	0.18	4.84	8.44	124.38	134.74
September 2012	**0**	**0**	**25.48**	**0**	**8.92**	**0.94**	**0**	**0**	**35.34**	**1.84**	**0**	**1.6**	**3.44**	**29.86**	**38.84**
September 2011	30.24	0	24.1	0	22.36	6.98	0	0	83.68	3	0	2.16	5.16	66.48	88.84
October 2012	**0**	**0**	**18.1**	**0**	**14.00**	**1.34**	**1.66**	**0**	**35.1**	**1.94**	**0**	**0.66**	**2.6**	**23.70**	**37.72**
October 2011	24.54	0	22.94	0	13.48	2.24	0	0	63.2	2.34	0	1.38	3.72	53.44	66.92
November 2012	**0**	**0**	**18.04**	**0**	**13.64**	**1.2**	**0**	**0**	**32.88**	**3.48**	**0**	**0.56**	**4.04**	**23.28**	**37.1**
November 2011	29.32	0	27.18	0	7.86	2.54	0	0	66.90	3.14	0	1	4.14	63.18	71.04
December 2012	**0**	**0**	**20.34**	**0**	**19.46**	**1.52**	**1.54**	**0.04**	**42.90**	**2.1**	**0.88**	**0.76**	**3.74**	**27.18**	**46.62**
December 2011	0	0	25.72	0	4.92	2.52	0	0.38	33.54	1.56	0	0.62	2.18	30.8	35.72
Total Tonnage 2012	**0.00**	**0.00**	**290.40**	**0.00**	**182.46**	**25.26**	**8.20**	**4.18**	**510.50**	**28.88**	**1.98**	**16.40**	**47.26**	**375.30**	**557.46**
Total Tonnage 2011	**370.06**	**0.00**	**365.24**	**0.00**	**174.34**	**55.48**	**0.00**	**3.10**	**968.22**	**29.84**	**1.02**	**34.36**	**65.22**	**859.10**	**1032.38**

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

Attn: Tara O'Carroll EE Waste Management 06 March 2013
Re: LABORATORY Results for Cahersiveen Transfer stations: to Dec 2012

Enclosed are results (2003 – date) of monitoring of designated Surface water points and Foul emission point sampled as set out in EPA licence conditions for ***CAHERSIVEEN Transfer station*** The latest results are for Jul 2012– Dec 2012. Refer also to ***app 1: details of sample locations and APP 2 -Invertebrate monitoring report on Carhan stream 2010***

Significant deterioration in status at SW5 was noted in recent years by high level of Ammonia. This has been borne out by recent measurements
An examination of discharge from transfer station since 2003 i.e. ***<u>Se1</u>*** shows ***an effluent of acceptable quality.***

The contamination at SW5 would therefore seem to indicate that elevated levels (***8.69 mg/L NH4***, on 10th Oct last) are due to legacy or old landfill activities

As indicated in earlier reports the nearest point on Carhan downstream of landfill/transfer station still denotes a ***Q value =4*** which denotes a water of good quality.

The point on stream which is a tributary of Carhan stream , just downstream of transfer station also scores quiet highly on SSRS investigation. A summary of Biological report from 2010 is included with this report
However the impact from transfer station or old legacy landfill activities while they may not yet be evident on surface water quality does not eliminate possibility of a future impact. An investigation into impact on groundwater from closed landfills, including Cahersiveen, is currently underway. We intend to submit a report on this before July 2013.

David Lenihan MSc
Senior Executive Chemist

Appendix1: Details Sampling points referred to in report

Location	comments	old or alternative name	Location Easting	Location Northing
Surface water				
Off site sampling pts				
Sw1	Stream upstream of Landfill		50364.7	78554.9
SW6	Point on carhan river u/s of impact from landfill		50828.1	79458.5
SW7	Point on carhan river u/s of impact from landfill		49666	79781.7
On site sampling pts				
Sw3	Drain half way along northern perimeter fence		50057.4	78929.6
SW4	At Drain inside wirefence opposite weighbridge (u/s Landfill)		50061	78733
SW5	Drain downstream of l SW3 at corner of landfill		50055	79046
Leachate				
Outlet from treatment plant				
SE 1			50105	78767

APP 2 Invertebrate Monitoring Report : Carhan Stream

SSRS and Q index Monitoring of Carhan stream 19 July 2010

A request was made by the Environment Department to check if old landfill activities at Cahersiveen Transfer Station were having an effect on the River Carhan. It was decided that biological sampling was the only method which would give a full picture of the water quality in the area.

The Biological Quality Rating System for Rivers (Q ratings) as outlined by the Environmental Protection Agency (EPA) is carried out on rivers. The rating system goes from Q1 to Q5 where a Q5 denotes a pristine river and Q1 indicates serious pollution. This system is based on the differing tolerances of invertebrates to pollution. Three-minute kick samples are carried out at each station accompanied by stone examinations and weed sweeps which are generally done from May to September. It is important to note there are different classifications for depositing and eroding substrates.

First of all an SSRS study was carried out on the tributaries upstream of the transfer station as they are too small for Biological Quality Rating System described above. One of the tributaries was also sampled downstream of the transfer station. The Small Streams Risk Score (SSRS) is a relatively new biological risk assessment system for detecting potential sources of pollution in rivers and is usually carried out on first and second order streams from October to April. It was developed by the Environmental Protection Agency (EPA) in association with Western River Basin District (WRBD). The SSRS is of particular value in detecting hard to find diffuse sources of pollution within catchments. The basic principle of the SSRS is similar, i.e. that aquatic insects and other invertebrates living in streams have varying sensitivities to pollution and therefore, can be used as continuous monitors of water quality. This method was devised to describe the status of a stream with the score indicating the probability of risk as follows:

SSRS Scores: >8 Probably not at risk
6.5-8 Probably at risk
<6.5 At risk

A further explanation of the SSRS tool will help in understanding the results. It is divided into 5 groups of invertebrates, the mayflies, stoneflies, caseless and cased caddis flies, the GOLD species which consist of snails and worms and Asellus. It is important to note that the SSRS tool has been statistically designed to give more weight greater abundance of the pollution sensitive groups (i.e. mayflies and stoneflies). On the other hand the converse is true for the GOLD species and Asellus, which are more tolerant to pollution.

The SSRS tool was carried out on three tributaries while a Q rating was done on the main river upstream and downstream of the transfer station. One of the tributaries north (downstream) of the footbridge was unsuitable for sampling. All sites sampled are shown in the map at the end of the report. A results table shows results obtained at all these sites and corresponding biological ratings also. An adjoining file shows the species identified and other information for both the SSRS sites and the Q rating sites. Three of the four SSRS sites scored well indicating they are 'probably not at risk'. However, the Gurteen stream upstream of the transfer station only scored 6.4 deeming it 'at risk'. It should be noted that this stream flowed through bog which may be a factor. It had recovered downstream gaining a score of 9.6. The main difference in the two sites was the absence of mayflies and the abundance of the GOLD group which were plentiful upstream.

The Q rating upstream of the transfer station was Q3 - 4. This site at the Footbridge E of Inchimacteige is also sampled by the EPA. In 2007 they obtained a Q rating of 3-4 also. However, when previously done in 2004 it scored a Q4 so there has been some deterioration over the last few years. It is difficult to see where the source of the problem is as the tributaries upstream all had good SSRS scores.

The Q rating downstream was carried out northeast of Chiclog where access was gained at the end of a track. The river had improved here scoring a Q4.

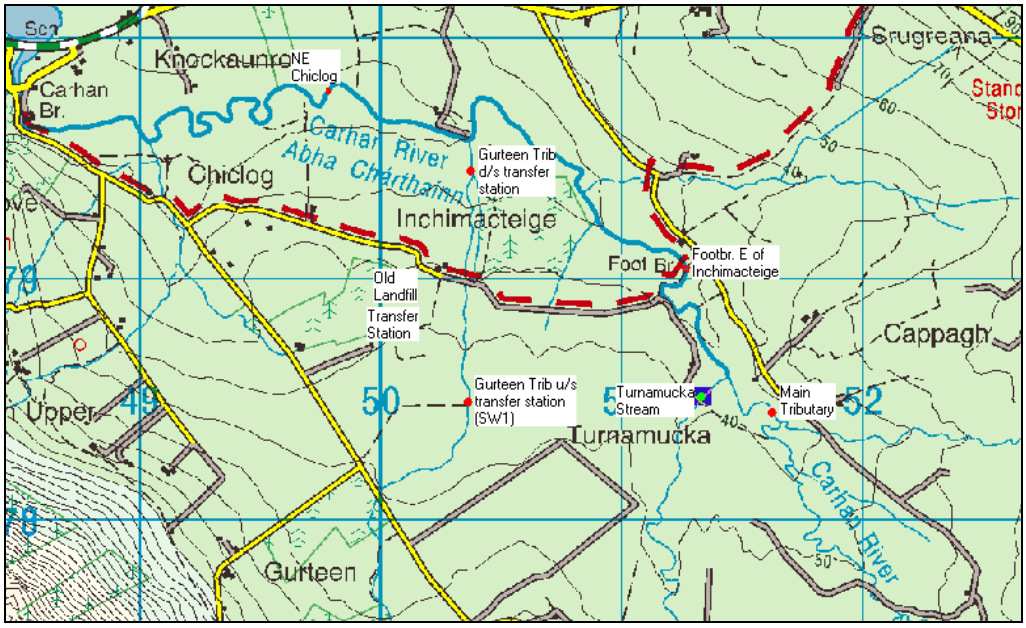
It would appear that any old landfill activities or the transfer station itself are not causing any deterioration in the river.

Parameter	Ammonium	Colour	Conductivity	MRP	TON	D.O.	D.O.	Temp	pH	SSRS	Q Rating
	NH4	Hz	at 20 degC	P	NO3	O2	% sat			Score	
Max.	--	20	--	0.03	--	15	150	--	9	--	
Target	--	--	--	--	--	--	--	--	--	--	
Min.	--	--	--	--	--	5	50	--	6	6.5	

Location	Lab Ref	Date	Time	mg/l	Hazen	µS/cm	mg/l	mg/l	mg/l	% O2	DegC	pH units	Score	Rating
Carhan River (Main tribuatary)	2010/0354	27.1.10	12:30	< 0.02	57	85	< 0.005	1.09	12.5	95	5.1	7	9.6	
Turnamucka Tributary	2010/0353	27.1.10	11:15	< 0.02	79	89	< 0.005	0.67	13.1	100	5	6.9	8.8	
Gurteen Tributary (SW1) u/s Transfer St.	2010/1490	8.4.10	11:07	< 0.02	91	92	< 0.005	0.97	11.5	96	8.1	6.6	6.4	
Gurteen Tributary d/s Transfer Station	2010/1491	8.4.10	14:25	< 0.02	94	98	0.008	1	11.3	101	10.7	6.6	9.6	
End of path NE Chiclog	2010/2643	16.6.10	14:00	< 0.02	64	204	< 0.005	0.35	10	107	16.2	7.4		4
Foot-bridge East Of Inchimacteige	2010/2642	16.6.10	10:50	< 0.02	72	113	< 0.005	0.6	11	109	15.6	7.3		3.5

Chemical Results & Biological Scores

Map of Sampling Points



Landfill	Location	Eastings	Northings	Sample Reference	Sample Date	Sample Time	Ammonium (NH4)	pH	BOD (O2)	Conductivity @ 20 oC	Chemical Oxygen Demand (O2)	Chloride (Cl)	Dissolved Oxygen (O2)	Suspended Solids	Temperature
							mg/l	*pH units*	*mg/l*	*µS/cm*	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*Degrees C*
Caherciveen	Sw 1	50364.7	78554.9	2012/0454	25-Jan-12	13:15	< 0.02	5.5	< 1	125	34	33	10.5	16	9.1
Caherciveen	Sw 1	50364.7	78554.9	2012/1891	18-Apr-12	12:35	0.03	6	1.3	110	45	27.8	11	2	9.5
Caherciveen	Sw 1	50364.7	78554.9	2012/3076	04-Jul-12	14:25	0.04	6.1	1	97	66	23.2	10.1	5	14.6
Caherciveen	Sw 1	50364.7	78554.9	2012/4952	10-Oct-12	14:00	0.05	6.8	< 1	102	63	24	9.8	1.2	15
Caherciveen	SW3	50057.4	78929.6	2012/0455	25-Jan-12	13:25	0.24	6.7	1.5	168	32	43	11.3	10	8.7
Caherciveen	SW3	50057.4	78929.6	2012/1892	18-Apr-12	11:30	0.03	6.7	2.4	179	44	39.9	10.7	14	8.5
Caherciveen	SW3	50057.4	78929.6	2012/3077	04-Jul-12	13:38	0.04	7	< 1	132	65	26.5	10	4	15.1
Caherciveen	SW3	50057.4	78929.6	2012/4953	10-Oct-12	14:33	0.03	7	< 1	126	59	24.6	9.6	8	16.2
Caherciveen	Sw 4	50061.3	78733.3	2012/0456	25-Jan-12	14:20	0.03	6.1	1.4	98	80	25	11.3	26	8.5
Caherciveen	Sw 4	50061.3	78733.3	2012/1893	18-Apr-12	11:10	0.03	6.8	7.7	122	90	27.4	10.7	60	10
Caherciveen	Sw 4	50061.3	78733.3	2012/3078	04-Jul-12	13:30	0.02	4.8	< 1	103	31	23.6	8.8	3	15
Caherciveen	Sw 4	50061.3	78733.3	2012/4954	10-Oct-12	14:20	0.02	5.6	1	99	58	22.9	8	10.4	15
Caherciveen	Sw 5	50054.6	79046.1	2012/0457	25-Jan-12	13:35	0.93	6.7	4.5	144	45	32	11.2	32	8.8
Caherciveen	Sw 5	50054.6	79046.1	2012/1894	18-Apr-12	11:40	13	6.7	4	199	48	34.3	10.4	10	8.7
Caherciveen	Sw 5	50054.6	79046.1	2012/3079	04-Jul-12	13:50	1.9	6.5	2.3	154	81	25.2	9.7	13	14.6
Caherciveen	Sw 5	50054.6	79046.1	2012/4955	10-Oct-12	14:40	8.69	6.8	< 1	275	63	27.3	9.2	2.4	14.9
Caherciveen	Sw 7	49666	79781.7	2012/4782	02-Oct-12	13:15	< 0.02	6.7	1	87			10.8	3	12.5

Landfill	Location	Sample Reference	Sample Date	Sample Time	Ammonium (NH4)	pH	BOD (O2)	Conductivity @ 20 oC	Chemical Oxygen Demand (O2)	Suspended Solids	Temperature	Oils/Fats & Grease	Oils/Fats & Grease
					mg/l	*pH units*	*mg/l*	*µS/cm*	*mg/l*	*mg/l*	*Degrees C*	*mg/l*	*Descriptive*
Caherciveen	Se1	2012/0458	25-Jan-12	13:10	4	6.7	12.6	505	161	55	9		No visual evidence
Caherciveen	Se1	2012/1896	18-Apr-12	12:05	6.27	6.5	4	495	69	13	9.5	< 0.5	No visual evidence
Caherciveen	Se1	2012/3219	11-Jul-12	12:15		6.6	3.5	419	109	46		< 0.5	No visual evidence
Caherciveen	Se1	2012/5087	16-Oct-12	11:00	0.1	6.8	4.7	549	124	61		< 0.5	No visual evidence

Foul Water Monitoring Results 2012

Appendix III - Landfill Gas Summary

Caherciveen Waste Transfer Station

Monitoring of Landfill Gas Levels

Date	Ref.	CH_4 % v/v	CO_2 % v/v	O_2 % v/v	Atm. Pressure Mbar	Temperature Degrees Celsius
6/10/08	L1a	6.8	2.5	20.1	1008	15
13/5/09	L1a	5.4	3.3	21.4	1010	16
3/12/09	L1a	6.9	3.4	20.9	1005	8
20/4/10	L1a	1.0	0.3	20.1	1017	15
20/7/11	L1a	0.1	0.0	20.8	1011	14
1/11/11	L1a	0.4	0.2	20.5	997	12
17/07/12	L1a	0.8	0.4	19.6	1017	17

Appendix IV – Results of Dust Monitoring

southern scientific services ltd.

OUR REF: RP 2012 | KERRY COUNTY COUNCIL – CAHERCIVEEN | 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:	12 September – 23 October 2012
REPORT TO:	JOHN AHERN	DATE RECEIVED:	25 October 2012
SAMPLED BY:	John Mannix	DATE ANALYSED:	09 – 20 November 2012
SAMPLING PT:	CAHERCIVEEN TRANSFER STATION	DATE REPORTED:	26 November 2012
ORDER NO:		WORK NO.:	27409 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	C12-Oct 475	Station 1	131	44
SCP 039	C12-Oct 476	Station 2	328	35

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 V – Results of Noise Monitoring

Malachy Walsh and Partners
Engineering and Environmental Consultants

2012 Caherciveen Waste Transfer Station Waste Licence Environmental Noise Survey

On behalf of
Kerry County Council

January 2013

Job number	Revision	Prepared by	Checked by	Status	Date
15002	6001 A	Peter Barry	Ken Fitzgerald	FINAL	31st January 2013

MWP ENVIRONMENT AND PLANNING

Table of contents

LIST OF APPENDICES

1 INTRODUCTION

Kerry County Council operates a waste transfer station in Inchamacteige, near Caherciveen. The facility operates within the conditions set out in the waster licence register number W087-01. Under the terms of this licence the facility is required to carry out an annual environmental noise survey. The results of this survey are described below.

2 METHODOLOGY

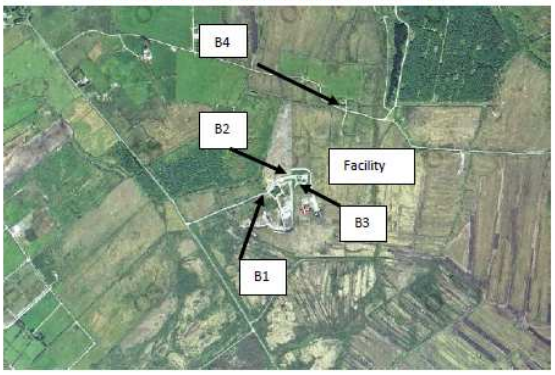
2.1 MONITORING PERIODS

The survey was carried out in accordance with the EPA guidance document, EPA guidance note 4- Guidance Note for Noise: Licence Applications, Surveys and Assessments in relation to Scheduled Activities. In accordance with the guidance note the noise surveys were carried out over three monitoring periods during the normal daytime operating times. Monitoring was undertaken for 30 minutes at each location. Noise monitoring was undertaken by Peter Barry (AMIOA) of Malachy Walsh and Partners on the 15th November 2012. Noise monitoring had to undertaken over two days in order to comply with the EPA guidance note NG4 and because of adverse weather conditions.

2.2 MONITORING LOCATIONS

Monitoring was undertaken at the four nearest noise sensitive locations (B1, B2, B3 and B4). The locations are shown on Figure 1 overleaf.

Figure1: NOISE MONITORING LOCATIONS



2.3 Survey Equipment

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

The instrument was calibrated with a B&K type 4231 calibrator prior to and after the measurement period. Factory calibration certificates for the noise level meter and acoustic calibrator, detailing equipment serial numbers, calibration traceability and re-calibration dates are presented in Appendix A of this report. A glossary of noise related terms is presented in Appendix B.

2.4 Measurement Parameters

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

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

The 1/3 Octave Frequency was also measured at each location. This allows for the detection and identification of tonal content. Typically there is a 5dB(A) penalty for tonal content in the noise signature.

2.4.1.1 Meteorological Conditions

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

3 RESULTS

Table 1. Noise Monitoring Results

Location Reference	Date and Time	L_{Aeq} dB	L_{A90} dB	L_{A10} dB	Tones Hz	Description of Noise Sources
B1 (at main gate)	15/11/2012 10:50 – 11:20	56	27	47	No toned detected	The main contributing noise source cat this location included cars and traffic entering and exiting the facility. Where a HGV entered the site, the L_{Aeq} was elevated. Birdsong also contributed to the noise build up.
	13:24 – 13:54	47	22	39	No toned detected	
	15:50 – 16:05	30	23	31	63 Hz	
B2 (at weighbridge)	15/11/2012 11:25 – 11:55	45	26	49	No toned detected	Customers and idling cars were the main contributing noise source at this location.
	14:02 – 14:32	50	26	54	630 Hz	
	16:10 – 16:25	48	31	50	No toned detected	
B3 (boundary location)	15/11/2012 12:00 – 12:30	36	24	36	No toned detected	The main contributing noise source at this location was the tipping shed in operation. Other contributing noise sources included a car exiting the facility, background traffic, an aircraft and some occasional noise from a farmyard in the distance.
	14:35 – 15:05	48	31	50	No toned detected	
	16:32 – 16:42	55	30	58	315 Hz	
B4 (nearest noise sensitive receptor, west)	15/11/2012 12:41 – 13:11	38	29	39	No toned detected	A truck unloading a skip contributed the most to the noise build up during the second survey. Otherwise there were no notable noise emissions from the facility. A car passing, a tractor on a farmyard and birdsong also contributed to the noise build up.
	15:4 – 15:45	43	32	39	No toned detected	
	16:50 – 17:05	39	30	40	No toned detected	

4 CONCLUSION

In conclusion the Caherciveen waste transfer station was not a significant contributor to the ambient noise environment in the area. There were no steady or continuous noise emissions from the facility. The facility does not constitute a nuisance for the nearest noise sensitive receptors. The measured L_{A90} or background noise levels, which excludes noise from traffic and aircraft, were well below the 55dB(A) noise limit, ranging between L_{90} 22dB(A) to 32dB(A), reflecting the quiet and rural nature of the location.

Although the sound level meter detected tones at 63 Hz, 630 Hz and 315Hz, no obvious tonal source was noted. These tones most likely originated from car or HGV engines or the tipping shed motor.

Appendix A

Calibration Certificates

CASELLA MEASUREMENT

Service Engineering Report

Customer:	Malachy Walsh and Partners		
Ref Number:	R0459682/01	Order Num:	13378
Ser/No.:	2654709	Booked In:	22-Mar-10
Product:	B&K 2250 Sound Level Meter	Proceed Date:	07-Apr-10
Warranty:	No		

Customers Reported Fault

calibration

Fault Diagnosis:

Engineers Report:

B&K 4950 S/N 2657422 Microphone PASS Frequency & sensitivity test.
B&K 2250-L Calibration,
Calibrate with manufactures performance specification's) PASS
Supplied Results Certificate .

Disclaimer

All work carried out is covered by a 90 Day warranty on parts and labour. Exceptions:- Replacement batteries, electrochemical cells. Any shortages must be reported within seven working days of despatch from our premises. Any queries should be directed to Casella Customer Service Department. Casella CEL Management system accredited to ISO- 9001:2000 by the SIRA Certification Services (CML),Certificate No. 051824.

Casella Measurement

Engineer : Navin Mistry

Sig

Completion Date 08-Apr-10

SERVICE

Casella Measurement, Regent House, Wolseley Road, Kempston, Bedford, MK42 7JY
Phone: +44(0)1234 844100, FAX: +44(0) 1234 841490, E-mail: Info@casellacel.com
Web: www.casellacel.com

Form SER01 Issue 01

Certificate of Conformance and Calibration

CASELLA MEASUREMENT

Customer:	Malachy Walsh and Partners
Instrument:	B&K 4231
Serial No 1:	2665058
Part No.:	
Ref Number:	0459682/02
Date of Issue:	08/04/2010
P/Ord Num:	13378

Firmware Ver: N/A

Calibration Method: -

The Instruments indicated values for the measurement parameters have been validated using the tested traceable equipment which has been calibrated with traceability to National and International references.

The uncertainties are for a confidence probability of not less than 95%.

Traceable Equipment: -	Equip No.	Cal DueDate
DMM Fluke 45	00691	18/06/2010
B&K 4231 Calibrator	10066M	06/01/2010

Test Conditions: -

Ambient Temperature : 24.7°C

Ambient Humidity : 35%RH

Ambient Pressure : 1010 mBar

Results: -

	Initial Reading:	Final Reading:	Tol (Class 1):	Tol (Class 2):
Frequency @ 1kHz:	1.0001	1.0001	±1 Hz @ 1 kHz	
SPL @ 114dB:	114.2	114.0	±0.15dB	±0.2dB
SPL @ 94dB:	94.2	94.0	±0.15dB	
With Coupler:				

Comments:

Casella Measurement

Engineer: Navin Mistry

Sig

Calibration Date 08/04/10

SERVICE 4

Casella Measurement, Regent House, Wolseley Road, Kempston, Bedford, MK42 7JY
Phone: +44(0)1234 844100, FAX: +44(0) 1234 841490, E-mail: Info@casellacel.com
Web: www.casellacel.com

Appendix B

Glossary of Noise Related Terms

Ambient Noise

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

Background noise level

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

EPA

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

Decibel (dB)

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

dB(A)

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

Hertz (Hz)

Unit of frequency (pitch) of a sound

Impulsive Noise

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

1/3 Octave band analysis

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

LAeq

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

$L(A)_{10}$

The noise level that is equaled or exceeded for 10% of the measurement period

$L(A)_{90}$

The noise level that is equaled or exceeded for 90% of the measurement period

Noise

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

Noise Sensitive Receptor

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

Rating level L_{ArTr}

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

Residual Noise

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

Sound Power

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

Specific Noise Source

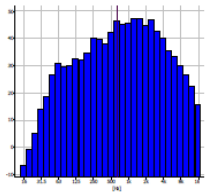
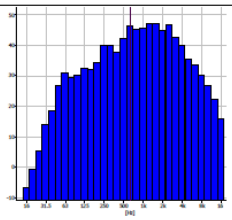
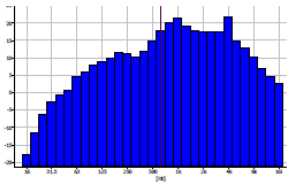
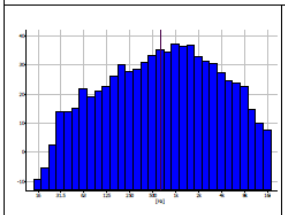
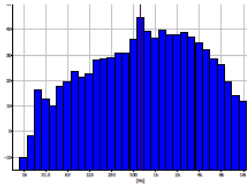
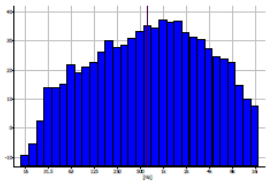
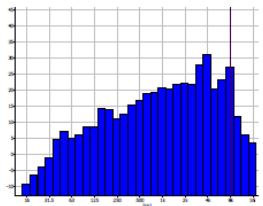
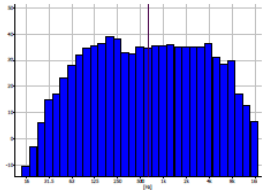
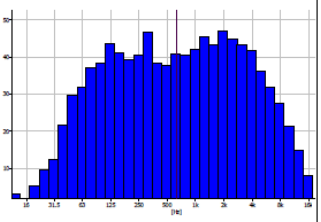
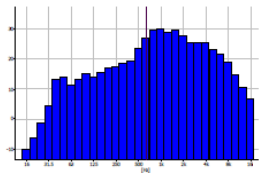
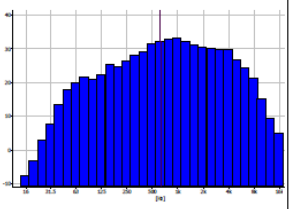
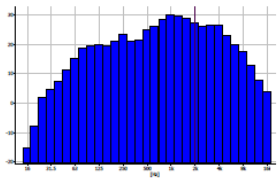
The noise source under investigation for assessing the likelihood of complaints

Tone

A noise with a narrow frequency composition

Appendix C

1/3 Octave Centre Frequency Data Graphical Representation

Location N1		
		
Location N2		
		
Location N3		
		
Location N4		
		

Appendix VI - AER/PRTR Return 2012

Sheet : Facility ID Activities AER Returns Workbook

Environmental Protection Agency

| PRTR# : W0072 | Facility Name : Coolcaslagh Transfer Station | Filename : W0072_2012.xls | Return Year : 2012 |

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.15

REFERENCE YEAR	2012

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	0667162020
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	
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?	
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) ?	

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR Link to previous years emissions data [PRTR# : W0072] Facility Name : Coolcaslagh Transfer Station [Filename : W0072_2012.xls] Return Year : 2012] 28/03/2013 14:52

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)	E	ESTIMATE	Gas Sim Model	0.0	281000.0	0.0	281000.0
01	Methane (CH4)	E	ESTIMATE	Gas Sim Model	0.0	126000.0	0.0	126000.0

* 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	

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0087 | Facility Name : Caherciveen Transfer Station | Filename : w0087_2012.xls | Return Year: 2012 |

21/03/2013 09:27

0

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	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 02 04	Yes	0.98	mineral-based chlorinated engine, gear and lubricating oils	R9	M	Weighed	Abroad	Enva,W0184-1	Clonminam Industrial Estate,,,Portlaoise,County Laois,Ireland	Nehlsen GmbK & Co KG,D3330040,,,,Bremen,,,Germany	.,.,Bremen,.,Germany
Within the Country	15 01 01	No	10.26	Bailed 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	11.58	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	3.64	metallic packaging	R4	M	Weighed	Offsite in Ireland	Dillon Waste Ltd,WFP-KY-10-001	The Kerries ,,,Tralee,County Kerry,Ireland		
Within the Country	20 03 01	No	12.68	mixed municipal waste	R3	M	Weighed	Offsite in Ireland	Killarney waste Disposal,W0217-01	Aughacureen,,,Killarney ,County Kerry,Ireland		
Within the Country	15 01 07	No	23.48	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	9.25	discarded equipment containing chlorofluorocarbons, HCFC, HFC	R4	M	Weighed	Abroad	KMK Metals,W0113-01	Cappincur Industrial estate,,,Tullamore,County Offaly,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	17.77	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	52.88	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	1.0	textiles	R3	M	Weighed	Offsite in Ireland	Textile Recycling,WPR 014/2	Belgard Road,Tallaght,Dublin,24,Ireland		
To Other Countries	20 01 21	Yes	0.28	fluorescent tubes and other mercury-containing waste	R5	M	Weighed	Abroad	KMK Metals,W0113-01	Cappincur Industrial estate,,,Tullamore,County Offaly,Ireland	Alba Servicoe GmbH & Co KG,E57757020,Kanalstrasse 64,,,Rheine,48432,Germany	Kanalstrasse 64,,,Rheine,48432,Germany
To Other Countries	20 01 33	Yes	0.03	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	R4	M	Weighed	Abroad	KMK Metals,W0113-01	Cappincur Industrial estate,,,Tullamore,County Offaly,Ireland	EMR,EAML40099,Bently Road South,,,Darlston,WS10 8LW West Midlands,United Kingdom	Bently Road South,,,Darlston,WS10 8LW West Midlands,United Kingdom
Within the Country	20 01 36	No	15.89	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-01	Cappincur Industrial estate,,,Tullamore,County Offaly,Ireland		
Within the Country	16 02 13	Yes	18.74	discarded equipment containing hazardous components (16) other than those mentioned in 16 02 09 to 16 02 12	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
Within the Country	20 01 40	No	20.0	metals	R4	M	Weighed	Offsite in Ireland	Hegarty Metals,WFP-LC-11-001-01	Ballysimon Road,,,Limerick,,,Ireland		
Within the Country	20 03 01	No	557.76	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	North Kerry Landfill,W001-04	Muingnaminnane,,,Tralee,County Kerry,Ireland		

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