Kerry County Council

Waste Licence Ref No. W0086-01

REPORT TITLE

Kenmare Transfer Station
Annual Environmental Report

Reporting Period:

January 2011 – December 2011

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

June 2011

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1.0 Introduction

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

The principal activity of the Transfer Station is the compaction of solid waste into 30 cubic 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 W0086-01 issued by the Environmental Protection Agency (EPA).

2.0 Reporting Period

The reporting period for this Annual Environmental Report is 1st January 2011 – 31st December 2011.

3.0 Waste Activities Carried out at the Facility

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

Licensed activities include:

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

Class 13 Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

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

Class 1 Solvent reclamation or regeneration.

Class 2 Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).

Class 3 Recycling or reclamation of metals and metal compounds.

Class 4 Recycling or reclamation of other inorganic materials.

Class 13 Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

4.0 Quantity and Composition of Waste Received, Disposed and Recovered: 1st Jan – 31st Dec 2011

Waste tonnage disposed of at Kenmare Transfer Station during the reporting year (2011) decreased on the previous year (2010). This is primarily due to the downturn in the economy resulting in a significant change in the disposal habits of members of the public. The quantity of construction and demolition waste delivered directly to the facility has significantly reduced.

The weight of the waste accepted into Kenmare Transfer Station Facility for disposal for the reporting period was 1,099.58 Tonnes. This comprises of the following breakdown:

Waste for Disposal	***Tonnes***		
	2009	***2010***	***2011***
Municipal waste collected by Local Authority & Private Contractors	241.94	114.54	102.6
Commercial & Industrial	218.32	360.07	320.19
Road Sweepings & Graveyard Waste	2.42	0.24	5.3
Flytipping	12.08	19.56	18.98
Public Domestic	953.24	777.45	652.51
Total for Disposal	**1,428**	**1,271.86**	**1,099.58**

Table 1 Waste Stream Break down for reporting Period.

Overall the quantities of waste sent for recycling decreased in comparison to last year, particularly for metals, glass and textiles. Increases were noted for batteries, cardboard and domestic hazardous waste. Waste sent for recycling during the reporting period compared with previous years is outlined in Table 2 below.

Waste for Recycling & Recovery	***Tonnages 2008***	***Tonnages 2009***	***Tonnages 2010***	***Tonnages 2011***
Metals	0	23.42	40.24	34.96
Glass	35.0	43.1	46.19	32.2
Aluminium	3.2	1.1	1.01	0.95
Batteries	13.2	7.7	0.9	1.12
Newspapers	115.0	100.48	81.62	80.44
Cardboard	0	2.5	1.94	3.06
Fluorescent Tubes	0.34	0.28	0.3	0.3
Domestic Hazardous Waste	0.13	0.92est	0	1.12
Plastic Bottles	11.5	13.24	15.28	15.2
Waste Engine Oil	1.8	1.8 est	0	1.1
WEEE	95.70	79.07	61.13	61.15
Cooking Oil	0	0.79	0	0.28
Dry Recyclables	0	0	3.77[1]	3.18[1]
Organics	0	0	0	0
Textiles	0	0	0.74	0.44
Total for Recycling/Recovery	**275.87**	**274.44**	**253.12**	**235.5**

[1] **Dry recyclables collected in eco sense bags**

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

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

5.0 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 Kenmare 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

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

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

b) Surface Water Emissions

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

c) Waste from Silt Traps and Interceptors

A total of 4.46 Tonnes of silt/sludge and wastewater was removed from the silt traps/oil interceptors and foul waste water treatment unit during the reporting period and disposed of at Kenmare Wastewater Treatment Plant.

7.0 Summary of Results and Interpretations of Environmental Monitoring

a) Dust monitoring

Dust Monitoring was carried out at the facility at Stations 1-5 in July/August 2011. The dust monitoring results for the reporting period were within the dust deposition

limits specified in the waste licence. There were no issues with dust during 2011 and no complaints were received in relation to dust at the facility.

b) Noise monitoring.

Noise monitoring was carried out at the facility by Southern Scientific Services on the 15th December, 2011. The noise monitoring report is available at the facility and was forwarded separately to the EPA inspector. The noise limit prescribed in the Waste Licence is being met at all noise monitoring locations except for B1 where the elevated noise level is attributed to traffic on the public road. The noise report concludes that the noise limit prescribed in the Waste Licence is being complied with and that activities at the waste transfer station are not adversely impacting on the noise environment at the nearest noise sensitive location. The waste transfer station does not generate noise at night-time when the facility is closed.

There were no issues with noise during 2011 and no complaints were received in relation to noise at the facility. The results over the years have shown that the facility caused no noise nuisance to neighbours.

c) Monitoring of surface water.

The surface water monitoring results are attached in Appendix II. Slightly elevated Ammonia levels were intermittently recorded at SW1 and SW3. It is probable that the impact at these points is from old landfill activities rather than transfer station activities. Further investigation this year will include investigation of boreholes on and off site (last monitored in 2003) and biological investigation of downstream river sites. It should be noted that no effects have been noted downstream of the site. The closest EPA monitoring point downstream of here i.e. Salaheen Bridge on Finnihy consistently shows a Q value of 4 unchanged from the upstream point.

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 (2011 average **CH_4** – 0.25 % v/v & **CO_2 –** 2.95% 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 Kenmare Transfer Station for the reporting period.

8.1 Diesel

The diesel usage for Kenmare Transfer Station for the reporting period 2011 was 1,250 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 6,739 kilowatt hours.

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. While water consumption is not metered the estimated usage for the facility during the reporting period was 110,000 litres. Water is mainly used on site for power washing yards, office toilets and sinks, transfer station apron/hopper and washing of trucks and bins when required.

9 Report on Development Works Undertaken during the Reporting Period

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

10 Timescale for Proposed Development Works For Forthcoming Year

No development works are proposed at the facility for 2011.

11 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 Report on Progress towards achievement of the 2010 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	Decreasing & 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 – Cardboard increasing

13 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 Reported Incidents and Complaints

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

15 Report on Financial Provision

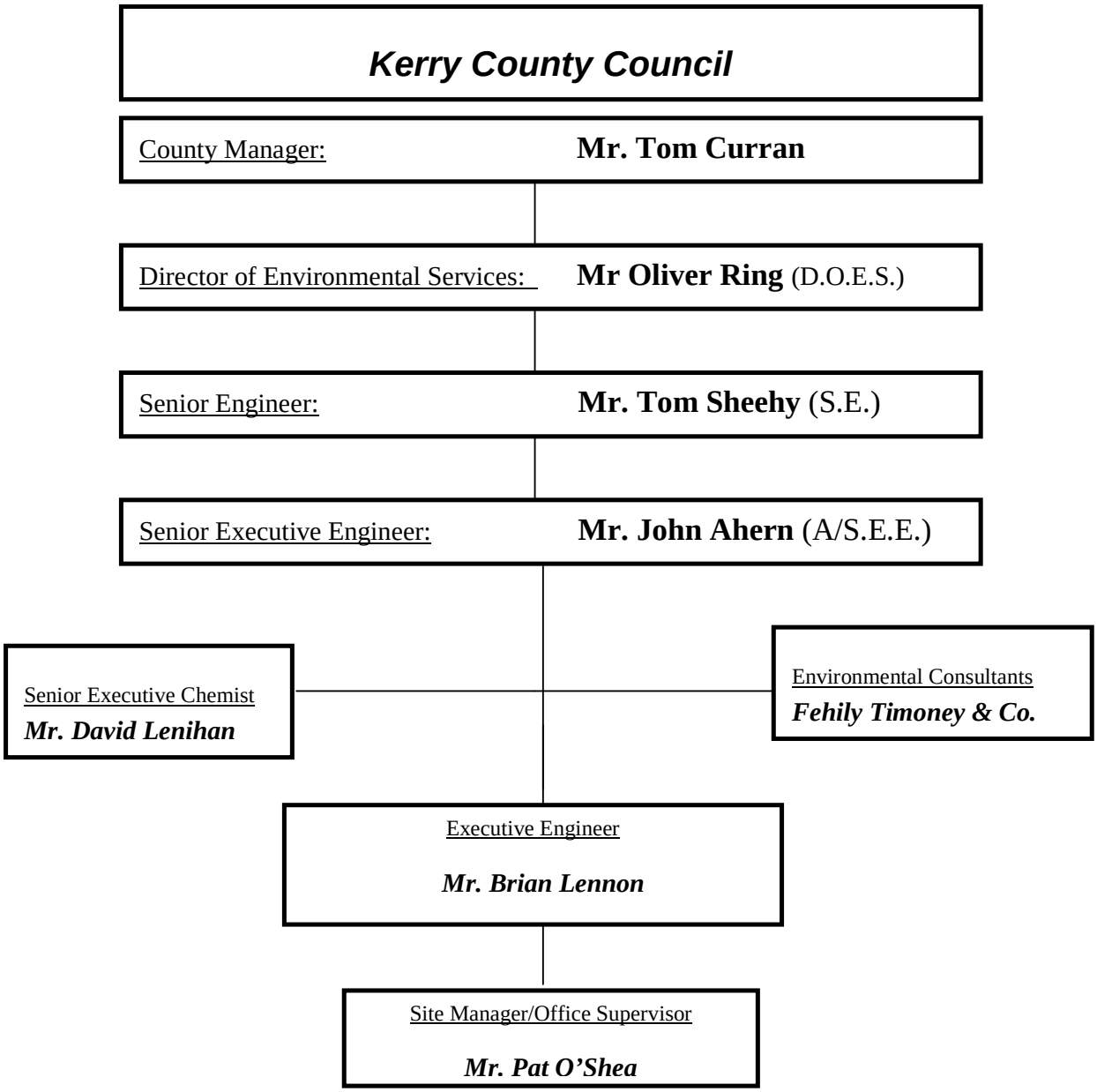
a) Statement of Costs for Waste Operations at Facility

Waste 2011		
Accelem	**Accelem(T)**	**Total Charge €**
60030	Wages	27,696.06
60040	Salaries	8,561.86
60100	ER PRSI	5,438.53
60200	Overtime	11,985.47
60300	Arrears	47.28
60400	Sick Pay	268.30
60500	Annual Leave	4,091.57
60510	Bank Holiday Leave	1,073.20
60600	Travel/Subsistence	3,003.72
61990	Other Allowances	1,576.68
65500	Minor Contracts- Trade Services & other works	38,801.07
69000	Hire (Ext) - Plant/Transport/Machinery & Equipment	49.59
69200	Repairs & Maint - Plant	100.43
69400	Transfers from Machinery Yard	1,596.50
69600	Other Vehicle Expenses	114.40
70000	Materials	367.61
70985	Issue from Fuel Stores	28.22
70990	Issues from Stores	3,452.30
71000	Insurance	98.83
73400	Staff Travelling & Subsistence Expenses	1,722.08
75000	Computer Software and Maintenance Fees	4,314.00
76000	Communication Expenses	341.92
79900	Consultancy/Professional Fees and Expenses	610.75
80000	Advertising	1,998.44
81000	Printing & Office Consumables	372.79
82100	Statutory Contributions to Other Bodies	5,294.58
85200	Cleaning	304.20
86000	Energy	1,258.55
	TOTAL	**124,568.93**

b) Statement of Costs for Recycling Operations at Facility

Recycling 2011		
Accelem	**Accelem(T)**	**Total Charge €**
60030	Wages	5,072.65
60040	Salaries	2,853.87
60100	ER PRSI	1,101.52
60200	Overtime	1,974.04
60300	Arrears	15.76
60500	Annual Leave	1,190.58
60510	Bank Holiday Leave	134.15
60600	Travel/Subsistence	534.69
61990	Other Allowances	313.74
65500	Minor Contracts- Trade Services & other works	775.50
67500	Non-Capital Equip Purchase - Computers	992.00
70000	Materials	399.84
73400	Staff Travelling & Subsistence Expenses	734.48
76000	Communication Expenses	66.49
79900	Consultancy/Professional Fees and Expenses	111.75
82100	Statutory Contributions to Other Bodies	2,269.10
	TOTAL	**18,540.16**

16 Management and Staffing Structure at Facility 2011



17 Programme of Public Information

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

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

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

		Kenmare Civic Amenity	
Material type	**Suggested EWC Codes**	**Household Waste**	**Non-household Waste**
(If you must depart from this list, please provide details on a separate sheet)	**(overwrite as appropriate)**		
mixed residual waste	20 03 01		
organic waste (food and garden) Total	20 01 08; 20 02 01	-	-
if segregated, provide specific information on food and garden waste			
food	*20 01 08*	-	
garden	*20 02 01*	-	
mixed dry recyclables (eco-bags)	15 01 06; 20 03 01	3.18	
cardboard, newspaper and other paper (Total)	15 01 01; 20 01 01	83.50	-
if segregated, provide the breakdown of cardboard and paper in the rows below			
**cardboard packaging*	*15 01 01*	*3.06*	
cardboard non-packaging	*20 01 01*	-	
paper packaging	*15 01 01*	-	
paper non-packaging	*20 01 01*	-	

**newspaper and magazines*	*20 01 01*	*80.44*	*-*
glass (Total)	15 01 07; 20 01 02	30.88	1.32
if segregated, provide the breakdown of glass in the next two rows			
glass packaging(bottles)	*15 01 07*	*30.88*	*1.32*
glass non-packaging(sheet)	*20 01 02*	*-*	
metals (Total)	15 01 04; 20 01 40	35.91	-
if segregated, provide the breakdown of metals in the next four rows			
aluminium cans (packaging)	*15 01 04*	*0.95*	
steel cans (packaging)	*15 01 04*	*3.22*	
other metal packaging	*15 01 04*	*-*	
other metals (non-packaging)(scrap)	*20 01 40*	*31.74*	
plastic (Total)	15 01 02; 20 01 39	15.20	-
if segregated, provide the breakdown of plastic waste in the next two rows			
plastic packaging(bottles)	*15 01 02*	*15.20*	
plastic non-packaging	*20 01 39*	*-*	
textiles (Total)	15 01 09; 20 01 11	0.44	-
if segregated, provide the breakdown of textiles in the next two rows			
textiles, packaging	15 01 09	-	
textiles, non-packaging	20 01 11	0.44	

wood (Total)	15 01 03; 20 01 38; 20 01 37*	-	-
if segregated, provide the breakdown of wood waste in the next four rows			
wood packaging	15 01 03	-	
wood non-packaging	20 01 38	-	
mixed, uncontaminated wood packaging and non-packaging	15 01 03; 20 01 38	-	
wood, treated, hazardous	20 01 37*	-	
miscellaneous hazardous waste (Total)		2.50	-
small batteries	*20 01 34; 20 01 33**	*1.12*	
lead acid batteries (Car Batteries)	*16 06 01**	-	
Ni-Cd batteries and Accumulators	*16 06 02**	-	
waste mineral oils (lubrication, vehicle, machine etc.)	*13 xx xx*	*1.10*	
oil filters (vehicles)		-	
oil containers (mineral oil) - plastic + metal		-	
waste cooking or vegetable oils	*20 01 25*	*0.28*	
aerosols	*20 03 99*	-	
waste paint and varnish (including containers)		-	
WEEE (Total)	various	61.147	-
if segregated, provide the breakdown of WEEE in the next five rows			
fridges and freezers	*20 01 35*; 20 01 36; 16 02 11*; 16 02 14*	*10.013*	

white goods (electrical and electronic)	*20 01 36; 16 02 14*	*28.837*	
televisions and PC monitors	*20 01 35*; 16 02 13*;*	*9.523*	
ICT- Information and Communications Technology Equipment, e.g Includes Computer Equipment	*16 02 14*	*0.175*	
other electrical and electronic equipment, eg. White Goods incl. Washing Machines, Dryersetc, TVs, PCs, Small Items incl. toasters Radios	*20 01 36; 20 01 35**	*12.599*	
Gas Cylinders			
C& D Rubble			
fluorescent tubes and lighting	*20 01 21**	*0.30*	
Tyres	*16 01 03*		
Ink Cartridges	*08 01 11*		
bulky waste (provide summary below of waste types), e.g. Furniture, Mattresses, Mixed Bulky Waste	20 03 07	-	

Appendix II - Results of Foul and Surface Water Monitoring

Attn: Brian Lennon EE Waste Management Tuesday, 01 May 2012
Re: LABORATORY Results for Kenmare Transfer stations: Jan2011 to Jan 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 ***KENMARE Transfer station.*** The latest results are for Jan – Aug 2011.
Refer also to ***app 1: details of sample locations***

As in previous reports impact was noted judging from Ammonia levels at SW1 and SW3.However it is more probable that impact at this point is from old landfill activities rather than Transfer station. Further investigation this year will include investigation of boreholes on and off site (last monitored in 2003) and biological investigation of downstream river sites.
The closest EPA monitoring point downstream of here i.e. Salaheen Bridge on Finnihy consistently shows a Q value of 4 unchanged from upstream point.
As can be seen from results of discharge point from Transfer station an effluent of acceptable quality is indicated.

David Lenihan MSc

Senior Executive Chemist

Table 1 Foul Water Monitoring Results

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	Odour
					mg/l	*pH units*	*mg/l*	*µS/cm*	*mg/l*	*mg/l*	*Degrees C*	*mg/l*	*Descriptive*	*Descriptive*
Kenmare	Se1	2003/0347	21-Jan-03	13:57	12	6.5	< 1	261	22	2.5	9.9	8		Not detected
Kenmare	Se1	2003/1935	16-Apr-03	14:58	1.6	6.3	6.2	325	68	15	11.6	<1	no visual evidence	musty
Kenmare	Se1	2003/3918	22-Jul-03	12:10	5.77	6.7	*48*	599	165	18	16.5	4		Sl.urine/like odour
Kenmare	Se1	2003/5472	01-Oct-03	14:35	3.68	6.4	11.6	697	113	***35***	15.2	1.5		none
Kenmare	Se1	2004/0903	18-Feb-04	14:30	1.22	6.6	2.1	361	45	11	8.5	2.5		none
Kenmare	Se1	2004/1660	06-Apr-04	14:20	1.25	6.8	15.4	425	51	17	9.5	9.5		none
Kenmare	Se1	2004/3721	21-Jul-04	13:42	2.32	6.5	17.3	550	96	***26***	16.7	< 1	no visual evidence	Slight Sewage Odour
Kenmare	Se1	2004/5228	06-Oct-04	14:14	0.69	7.1	8	281	37	5	11.8	2		sl. sewage
Kenmare	Se1	2005/0359	19-Jan-05	13:55	1.1	6.5	21	371	69	***23***	9	1		Sewage
Kenmare	Se1	2005/1745	12-Apr-05	14:25	0.77	6.8	2.6	144	63	4	10.5	8.5		None
Kenmare	Se1	2005/4284	18-Aug-05	12:04	1.29	6.8	3.5	431	80	12	16.8	< 1	no visual evidence	None
Kenmare	Se1	2005/5305	13-Oct-	13:55	1.51	6.4	3.2	382	53	3	12	2.4		undetectable

Kenmare	Se1	2006/0382	05 24-Jan-06	13:58	0.3	6.9	5.3	240	25	10		< 1	no visual evidence	NoneDetected
Kenmare	Se1	2006/1683	20-Apr-06	13:15	0.79	6.4	4.7	310	28	5	10.1	1		Musty
Kenmare	Se1	2006/3926	17-Aug-06	12:30	0.12	7.4	1.3	356	72	9	14	2		Very slight musty odour
Kenmare	Se1	2006/5016	12-Oct-06	14:10	1	6.5	3	195	66	11	14	7		ND
Kenmare	Se1	2007/0642	01-Feb-07	14:52	5.2	6.6	5.7	318	65	9	8.5	6		sl. sewage
Kenmare	Se1	2007/1958	17-Apr-07	15:00	3.23	6.5	2	364	24	5	11.5	4		ND
Kenmare	Se1	2007/3889	19-Jul-07	13:00	0.16	6.4	1.2	205	35	< 1	15.3	9.2		ND
Kenmare	Se1	2007/6118	12-Nov-07	15:30	1.13	7.7	2.3	234	49	13	12.2	20		N/D
Kenmare	Se1	2008/0016	03-Jan-08	12:38	0.22	6.7	1	197	45	***21***	7.3	20		earthy
Kenmare	Se1	2008/1921	16-Apr-08	12:05	0.27	7.2	1.3	228	37	12	8	8		
Kenmare	Se1	2008/4114	11-Aug-08	13:45	0.02	6.4	4.8	188	54	***27***		< 2	no visual evidence	N/D
Kenmare	Se1	2008/6326	25-Nov-08	11:15	0.18	6.8	3.7	223	36	14	10.5	10		ND
Kenmare	Se1	2009/0796	09-Feb-09	13:22	0.19	7.1	10.2	153	101	***96***	5	4		N/D
Kenmare	Se1	2009/2090	20-Apr-09	11:05	0.02	7.4	2.2	211	43	13	11.5	4.4		Musty
Kenmare	Se1	2009/3938	28-Jul-09	13:59	0.06	7	5.5	150	86	78	13	2.1		earthy
Kenmare	Se1	2009/5416	19-Oct-09	15:50	< 0.02	6.9	4.1	179	87	***63***	14	< 2	no visual evidence	Nd
Kenmare	Se1	2010/0309	26-Jan-10	14:30	< 0.02	7.1	2.1	163	28	9	7	5.2		earthy
Kenmare	Se1	2010/1823	27-Apr-10	12:57	0.49	7.1	2	206	20	4	10	< 2	no visual evidence	none
Kenmare	Se1	2010/3112	14-Jul-10	13:40	2.37	6.8	10.2	153	60	11	15.3	3.2		slight/sewage
Kenmare	Se1	2010/4772	13-Oct-10	13:00	0.04	7.5		182	22	2		8		ND
Kenmare	Se1	2011/0329	19-Jan-11	15:50	0.15	7.1	1.3	831	20	5	7	< 2	no visual evidence	N.D
Kenmare	Se1	2011/2270	16-May-11	13:28	0.25	7.4	< 1	360	41	***22***	11.5	< 2	no visual evidence	ND
Kenmare	Se1	2011/3637	15-Aug-11	15:30	0.26	7.2	1.3	188	50	9	13.6		no visual evidence	ND

Kenmare	Se1	2011/4762	24-Oct-11	12:45	0.23	6.8	1.4	182	53	4	11.7		ND
Kenmare	Se1	2012/0635	02-Feb-12	13:00	< 0.02	7.3	4.2	139	70	43	6.7	< 0.5	ND

Table 2 Surface Water Monitoring Results

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*
Kenmare	Sw1	88321	73367	2003/0340	21-Jan-03	13:37	***2.15***	6.7	< 1	122	< 10	21	9.6	< 1	7.1
Kenmare	Sw1	88321	73367	2003/1933	16-Apr-03	14:28	***3.85***	6.6	1.8	159	15		5.5	2	12.3
Kenmare	Sw1	88321	73367	2003/3909	22-Jul-03	13:45	***2.12***	6.8	< 1	123	27	15	***4.6***	7	14.8
Kenmare	Sw1	88321	73367	2003/5469	01-Oct-03	14:12	***2.03***	6.4	< 1	148	< 10	15	***2.5***	2	12.1
Kenmare	Sw1	88321	73367	2004/0271	15-Jan-04	11:52	0.42	6.6	1.1	87	18	19.5	11.4	2	7.8

Kenmare	Sw1	88321	73367	2004/1657	06-Apr-04	14:11	***4.08***	6.7	1.3	166	< 10	20.5	7.3	1	8.6
Kenmare	Sw1	88320.9	73367.3	2004/3718	21-Jul-04	13:32	***4.11***	6.5	< 1	207	17	21.5	7.4	1	13.2
Kenmare	Sw1	88320.9	73367.3	2004/5225	06-Oct-04	14:06	0.71	6.7	1.1	86	17	17	9.3	3	10.4
Kenmare	Sw1	88320.9	73367.3	2005/0356	19-Jan-05	14:20	0.92	6.5	< 1	156	< 10	36	9.2	2	10.3
Kenmare	Sw1	88320.9	73367.3	2005/1737	12-Apr-05	13:07	***1.68***	6.5	2	116	53	21	6.3	1	10.5
Kenmare	Sw1	88320.9	73367.3	2005/3604	14-Jul-05	14:37	***3.95***	6.4	< 1	171	< 10	16	***3.7***	5	13.8
Kenmare	Sw1	88320.9	73367.3	2005/5302	13-Oct-05	13:20	***1.73***	6.4	1.7	141	44	17.5	5.6	2	9.3
Kenmare	Sw1	88320.9	73367.3	2006/0373	24-Jan-06	12:43	***3.62***	6.5	2.7	156	< 10	20	6.9	2	8.2
Kenmare	Sw1	88320.9	73367.3	2006/1680	20-Apr-06	13:02	0.46	6.4	1	68	33	15	10.7	2	9.6
Kenmare	Sw1	88320.9	73367.3	2006/5013	12-Oct-06	13:40	***1.14***	6.2	1.3	105	53	14	10.4	< 1	13.7
Kenmare	Sw1	88320.9	73367.3	2007/0639	01-Feb-07	14:44	***4.79***	6.4	< 1	207	29	32	7.1	10	9.5
Kenmare	Sw1	88320.9	73367.3	2007/1955	17-Apr-07	13:50	***5.05***	6.2	2.1	196	28	22	***3.5***	1	11.3
Kenmare	Sw1	88320.9	73367.3	2007/3886	19-Jul-07	13:12	0.9	6.2	1	123	10	16	6.1	< 1	12.9
Kenmare	Sw1	88320.9	73367.3	2007/5838	25-Oct-07	13:15	0.97	6.4	< 1	113	24	24	10.6	< 1	8.5
Kenmare	Sw1	88320.9	73367.3	2008/0010	03-Jan-08	12:25	0.97	6.4	2	123	130	25.5	10.7	***24***	6.5
Kenmare	Sw1	88320.9	73367.3	2008/1920	16-Apr-08	12:25	***9.54***	6.9	1.5	290	16	34	11.4	3	8.7

Kenmare	Sw1	88320.9	73367.3	2008/3676	17-Jul-08	14:00	***2.58***	6.3	2.6	136	19	20.5	***4***	5	13.2
Kenmare	Sw1	88320.9	73367.3	2008/5824	04-Nov-08	13:17	***5.04***	6.5	2.3	181	23	17.5	7.9	< 1	8.7
Kenmare	Sw1	88320.9	73367.3	2009/1932	07-Apr-09	13:30	0.29	6.5	1.1	80	24	15.5	11.2	5	8.3
Kenmare	Sw1	88320.9	73367.3	2009/3588	08-Jul-09	13:40	0.96	6.4	< 1	91	23	9	6.8	4	13.7
Kenmare	Sw1	88320.9	73367.3	2009/5102	01-Oct-09	14:30	***4.68***	6.3	2.5	176	22	17	***4.1***	5	11.9
Kenmare	Sw1	88320.9	73367.3	2010/0215	20-Jan-10	15:00	***1.02***	6.5	1.4	84	23	14	11.3	2	6
Kenmare	Sw1	88320.9	73367.3	2010/1472	08-Apr-10	14:50	***1.69***	6.6	1.5	100	20	12	9.2	< 1	10.1
Kenmare	Sw1	88320.9	73367.3	2010/3108	14-Jul-10	13:10	0.06	6.5	< 1	37	47	9	9.6	2	14.5
Kenmare	Sw1	88320.9	73367.3	2010/4737	12-Oct-10	11:55	0.8	6.1	1.4	88	30	11	7	2	10.5
Kenmare	Sw1	88320.9	73367.3	2011/0326	19-Jan-11	15:00	***1.85***	6.5	1.8	205	20	42	9.6	< 1	5.2
Kenmare	Sw1	88320.9	73367.3	2011/1983	20-Apr-11	13:49	***2.27***	6.9	1.3	223	17	37	9.3	5	12
Kenmare	Sw1	88320.9	73367.3	2011/3481	03-Aug-11	14:10	< 0.02	6.3	4.1	169	19	20.3	***3.8***	6	12.1
Kenmare	Sw1	88320.9	73367.3	2011/4680	18-Oct-11	14:07	0.45	6.4	< 1	102	30	24	10.8	< 1	10.3
Kenmare	Sw1	88320.9	73367.3	2012/0472	25-Jan-12	14:05	0.22	6.7	1.1	62	27	14	9.8	2.5	8.5
Kenmare	Sw2	88309	73232	2003/0341	21-Jan-03	13:22	0.04	6.5	< 1	73	< 10	19	11.2	2	6.9

Kenmare	Sw2	88309	73232	2003/1934	16-Apr-03	14:45	< 0.02	6.9	< 1	87	< 10		11.6	2	12.2
Kenmare	Sw2	88309	73232	2003/3910	22-Jul-03	12:25	< 0.02	7.2	< 1	81	19	15	9.1	6	16.1
Kenmare	Sw2	88309	73232	2003/5470	01-Oct-03	14:28	< 0.02	7	1.1	107	10	15	8.4	14.5	13
Kenmare	Sw2	88309	73232	2004/0272	15-Jan-04	11:43	< 0.02	***5.9***	1.1	70	< 10	17	11.9	3	7.3
Kenmare	Sw2	88309	73232	2004/1658	06-Apr-04	14:30	< 0.02	7	< 1	84	< 10	18	10.7	< 1	7.8
Kenmare	Sw2	88309	73232.4	2004/3719	21-Jul-04	13:18	0.02	6.7	< 1	102	< 10	18.5	12.3	< 1	14.7
Kenmare	Sw2	88309	73232.4	2004/5226	06-Oct-04	13:44	0.06	6.5	< 1	59	13	17	10.6	***52***	10.2
Kenmare	Sw2	88309	73232.4	2005/0357	19-Jan-05	14:05	< 0.02	6.1	1.1	138	< 10	40	11.1	1	9.7
Kenmare	Sw2	88309	73232.4	2005/1738	12-Apr-05	12:02	< 0.02	6.8	< 1	80	39	21	10.2	< 1	9.2
Kenmare	Sw2	88309	73232.4	2005/3605	14-Jul-05	15:02	< 0.02	7.1	< 1	86	< 10	13	9.1	1	18.6
Kenmare	Sw2	88309	73232.4	2005/5303	13-Oct-05	12:50	< 0.02	6.8	< 1	83	24	16	10.8	< 1	9.6
Kenmare	Sw2	88309	73232.4	2006/0374	24-Jan-06	12:23	< 0.02	6.8	< 1	67	46	15	11.2	< 1	7.7
Kenmare	Sw2	88309	73232.4	2006/1681	20-Apr-06	12:46	< 0.02	6.2	< 1	51	99	14	11.5	< 1	9.1
Kenmare	Sw2	88309	73232.4	2006/3680	02-Aug-06	14:07	< 0.02	6.7	< 1	89	< 10	13.5	9.7	1	14.9
Kenmare	Sw2	88309	73232.4	2006/5014	12-Oct-06	13:14	< 0.02	6.3	< 1	54	< 10	13.5	10	< 1	13.2
Kenmare	Sw2	88309	73232.4	2007/0640	01-Feb-07	14:28	< 0.02	6.4	< 1	108	10	27	10.7	< 1	8.8

Kenmare	Sw2	88309	73232.4	2007/1956	17-Apr-07	14:10	0.03	6.4	1.1	101	15	21	7.9	1	10.4
Kenmare	Sw2	88309	73232.4	2007/3887	19-Jul-07	12:50	< 0.02	6.6	< 1	87	< 10	16	9	1	13.3
Kenmare	Sw2	88309	73232.4	2007/5839	25-Oct-07	13:00	0.02	6.5	< 1	83	15	24	10	14	10.2
Kenmare	Sw2	88309	73232.4	2008/0011	03-Jan-08	11:14	< 0.02	6.3	1	90	62	24	11.9	***34***	6
Kenmare	Sw2	88309	73232.4	2008/1626	03-Apr-08	13:15	< 0.02	6.7	1.2	117	27	29	10.4	2	11.2
Kenmare	Sw2	88309	73232.4	2008/3675	17-Jul-08	13:40	< 0.02	6.8	< 1	88	12	19	9	< 1	14.1
Kenmare	Sw2	88309	73232.4	2008/5825	04-Nov-08	13:02	< 0.02	6.6	< 1	70	12	13	11.1	< 1	8
Kenmare	Sw2	88309	73232.4	2009/0098	07-Jan-09	13:05	< 0.02	6.5	2.3	72	52	24	12.1	***86***	3.8
Kenmare	Sw2	88309	73232.4	2009/1933	07-Apr-09	13:45	< 0.02	6.3	< 1	65	23	17.5	11.5	4	7.8
Kenmare	Sw2	88309	73232.4	2009/3589	08-Jul-09	13:11	< 0.02	6.6	< 1	69	< 10	9	9	2	14.1
Kenmare	Sw2	88309	73232.4	2009/5103	01-Oct-09	14:00	0.11	6.7	< 1	75	16	12	9.4	3	12.4
Kenmare	Sw2	88309	73232.4	2010/0216	20-Jan-10	14:00	< 0.02	6.3	< 1	47	21	12	12.2	< 1	5.4
Kenmare	Sw2	88309	73232.4	2010/1473	08-Apr-10	14:00	< 0.02	6.6	< 1	52	15	10	11.7	< 1	8.5
Kenmare	Sw2	88309	73232.4	2010/3109	14-Jul-10	13:20	< 0.02	6	< 1	27	42	10	9.9	< 1	14.4
Kenmare	Sw2	88309	73232.4	2010/4738	12-Oct-10	12:20	< 0.02	6.6	< 1	63	24	14.5	10.2	< 1	11
Kenmare	Sw2	88309	73232.4	2011/0325	19-Jan-11	14:40	< 0.02	6.8	< 1	56	13	12	12.6	< 1	4.7

Kenmare	Sw2	88309	73232.4	2011/1984	20-Apr-11	13:32	< 0.02	6.7	< 1	70	17	13	10.2	< 1	10.4
Kenmare	Sw2	88309	73232.4	2011/3482	03-Aug-11	13:35	0.06	6.7	< 1	80	10	13.8	8.6	2	14.3
Kenmare	Sw2	88309	73232.4	2011/4681	18-Oct-11	14:20	0.02	6	< 1	74	27	21.1	9.6	< 1	10.3
Kenmare	Sw2	88309	73232.4	2012/0473	25-Jan-12	14:30	< 0.02	6	< 1	46	20	13	10.7	2.5	8.4
Kenmare	Sw3	88301	73463	2003/0342	21-Jan-03	13:45	***1.85***	6.8	< 1	116	< 10	19	10.5	< 1	6.9
Kenmare	Sw3	88301	73463	2003/1932	16-Apr-03	14:20	***2.54***	6.7	1.2	129	18		11.2	2	12
Kenmare	Sw3	88301	73463	2003/3911	22-Jul-03	13:30	***1.7***	6.9	1.2	105	33	14	7.5	7	16.1
Kenmare	Sw3	88301	73463	2003/5471	01-Oct-03	13:55	***3.63***	6.8	< 1	164	17	16	7.7	2.5	12
Kenmare	Sw3	88301	73463	2004/0273	15-Jan-04	13:03	0.27	6.4	< 1	83	13	17.5	11.2	2	6.9
Kenmare	Sw3	88301	73463	2004/1659	06-Apr-04	14:00	***3.84***	7.1	1.8	166	< 10	19	8.8	9	8.4
Kenmare	Sw3	88301	73462.5	2004/3720	21-Jul-04	13:10	***4.64***	6.9	1	222	24	21.5	10.4	5	14.1
Kenmare	Sw3	88301	73462.5	2004/5227	06-Oct-04	13:53	0.45	6.6	1.1	75	24	16	9.6	2	10.6
Kenmare	Sw3	88301	73462.5	2005/0358	19-Jan-05	14:10	0.6	6.5	< 1	141	11	35.5	10.3	< 1	9.8
Kenmare	Sw3	88301	73462.5	2005/1739	12-Apr-05	13:22	***1.54***	6.8	1.1	109	46	20	8.4	< 1	9.8
Kenmare	Sw3	88301	73462.5	2005/3606	14-Jul-05	14:20	***5.12***	6.8	1.1	177	20	15	7.4	8	14.8

Kenmare	Sw3	88301	73462.5	2005/5304	13-Oct-05	13:40	***2.18***	6.7	< 1	130	29	16	9	2	9
Kenmare	Sw3	88301	73462.5	2006/0375	24-Jan-06	12:51	***3.86***	6.8	1.4	158	42	22	9.3	1	7.7
Kenmare	Sw3	88301	73462.5	2006/1682	20-Apr-06	13:24	0.26	6.4	< 1	64	14	15	10.6	< 1	9.5
Kenmare	Sw3	88301	73462.5	2006/3681	02-Aug-06	14:20	***2.51***	6.7	1.3	135	< 10	14.5	7.9	5	13.3
Kenmare	Sw3	88301	73462.5	2006/5015	12-Oct-06	13:32	***1.17***	6.4	< 1	101	21	12.5	11.2	1	14.2
Kenmare	Sw3	88301	73462.5	2007/0641	01-Feb-07	14:07	***3.97***	6.6	< 1	196	26	25	8.3	2	8.3
Kenmare	Sw3	88301	73462.5	2007/1957	17-Apr-07	13:30	***6.41***	6.8	1.8	227	32	25	8	5	11
Kenmare	Sw3	88301	73462.5	2007/3888	19-Jul-07	13:25	***2***	6.6	1.1	133	14	16	7.9	1	12.6
Kenmare	Sw3	88301	73462.5	2007/5840	25-Oct-07	13:25	***1.3***	6.6	1.8	122	28	22	8.9	< 1	9.8
Kenmare	Sw3	88301	73462.5	2008/0012	03-Jan-08	12:04	0.92	6.6	1	121	13	24	10.4	***30***	6.8
Kenmare	Sw3	88301	73462.5	2008/1627	03-Apr-08	13:45	***1.7***	6.7	1.3	159	20	27	9.3	14	11.1
Kenmare	Sw3	88301	73462.5	2008/3677	17-Jul-08	14:20	***3.33***	7	2.2	157	34	21.5	8	8	13.9
Kenmare	Sw3	88301	73462.5	2008/5826	04-Nov-08	13:28	***3.87***	6.7	1.2	167	27	16.5	8.7	< 1	8.1
Kenmare	Sw3	88301	73462.5	2009/0099	07-Jan-09	12:38	***4.08***	6.9	4.9	186	34	23	9.1	***33***	4.2
Kenmare	Sw3	88301	73462.5	2009/1934	07-Apr-09	13:15	0.47	6.4	1	77	23	14.5	10.7	< 1	8.2
Kenmare	Sw3	88301	73462.5	2009/3590	08-Jul-09	13:24	0.91	6.4	< 1	84	39	9	6.4	2	13.8

Kenmare	Sw3	88301	73462.5	2009/5104	01-Oct-09	14:10	***5.21***	6.7	2.8	193	37	17	6.4	16	12.8
Kenmare	Sw3	88301	73462.5	2010/0217	20-Jan-10	14:25	0.66	6.4	1	70	32	13	11.3	< 1	4.4
Kenmare	Sw3	88301	73462.5	2010/1474	08-Apr-10	14:25	***1.39***	6.5	1.2	93	26	10	9.6	< 1	9
Kenmare	Sw3	88301	73462.5	2010/3110	14-Jul-10	12:55	0.09	6.2	1	41	43	10	8.9	2	14.2
Kenmare	Sw3	88301	73462.5	2010/4739	12-Oct-10	11:35	***1.1***	6.5	1.2	108	26	14.5	7.6	2	9.7
Kenmare	Sw3	88301	73462.5	2011/0327	19-Jan-11	15:30	***1.42***	6.6	1.1	127	32	21	9.3	< 1	3.9
Kenmare	Sw3	88301	73462.5	2011/1985	20-Apr-11	14:02	***1.74***	6.5	< 1	118	31	18	6.9	21	10.5
Kenmare	Sw3	88301	73462.5	2011/3483	03-Aug-11	13:55	***3.59***	6.7	2	171	36	17.8	6.2	10	12.9
Kenmare	Sw3	88301	73462.5	2011/4682	18-Oct-11	14:30	0.04	6.4	< 1	93	38	21	9	< 1	10.5
Kenmare	Sw3	88301	73462.5	2012/0474	25-Jan-12	13:50	0.21	6.3	1.3	61	35	14	9.2	15.5	8.5
Kenmare	Sw4	88281	73962	2003/0343	21-Jan-03	11:25	0.03	6.4	< 1	68	< 10	15	11.1	< 1	5.9
Kenmare	Sw4	88281	73962	2003/3912	22-Jul-03	12:40	< 0.02	6.9	< 1	63	21	11	9.1	5	16.1
Kenmare	Sw4	88281	73962	2004/0901	18-Feb-04	12:04	< 0.02	7.2	< 1	67	10	76	11.1	1	7.4
Kenmare	Sw4	88281.2	73962.1	2006/0377	24-Jan-06	13:02	0.08	6.6	< 1	64	10	15	11.3	< 1	7.2
Kenmare	Sw4	88281.2	73962.1	2008/0014	03-Jan-08	11:40	0.02	6.5	< 1	78	< 10	18.5	11.8	19	5.8

Kenmare	SW5	88599	73986	2003/0344	21-Jan-03	11:38	0.04	6.3	< 1	68	< 10	15	11.1	< 1	5.8
Kenmare	SW5	88599	73986	2003/3913	22-Jul-03	13:00	< 0.02	6.9	< 1	63	18	11	9.2	7	16
Kenmare	SW5	88599	73986	2004/0902	18-Feb-04	12:17	< 0.02	7	< 1	69	< 10	14	11.3	< 1	7.3
Kenmare	SW5	88598.5	73985.9	2005/1741	12-Apr-05	13:55	0.03	6.7	< 1	67	30	15	10.6		10.1
Kenmare	SW5	88598.5	73985.9	2006/0378	24-Jan-06	13:36	0.09	6.6	< 1	65	< 10	14	11.2	2	7.3
Kenmare	SW5	88598.5	73985.9	2008/0015	03-Jan-08	11:55	0.02	6.4	< 1	80	< 10	19.5	11.6	17	6

Appendix III - Landfill Gas Summary

Kenmare 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
14/10/08	L1	52.3	28.5	1.1	1002	14
20/5/09	L1	48.7	29.3	2.4	998	16
10/12/09	L1	50.9	27.4	1.6	1004	8
14/4/10	L1	0.3	0.2	20.5	1012	13
7/10/11	L1	0.3	0.3	19.9	1021	15
11/11/11	L1	0.2	5.6	18.1	990	13

Appendix IV - AER/PRTR Return 2011

Sheet : Facility ID Activities AER Returns Workbook 29/8/2012 14:42

| PRTR# : W0086 | Facility Name : Kenmare Transfer Station | Filename : W0086 AER PRTR 2011.xls | Return Year : 2011 |

Environmental Protection Agency

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.13

REFERENCE YEAR	2011

1. FACILITY IDENTIFICATION

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

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	Claddanure West
Address 2	Kenmare
Address 3	Co Kerry
Address 4	
	Kerry
Country	Ireland
Coordinates of Location	-9.6227 51.9012
River Basin District	IESW
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Brian Lennon
AER Returns Contact Email Address	blennon@kerrycoco.ie
AER Returns Contact Position	Executive Engineer
AER Returns Contact Telephone Number	066-7162000
AER Returns Contact Mobile Phone Number	087-8173683
AER Returns Contact Fax Number	066-7162001
Production Volume	0.0
Production Volume Units	
Number of Installations	0

| PRTR# : W0086 | Facility Name : Kenmare Transfer Station | Filename : W0086 AER PRTR 2011.xls | Return Year : 2011 | Page 1 of 2

Sheet : Facility ID Activities AER Returns Workbook 29/6/2012 14:42

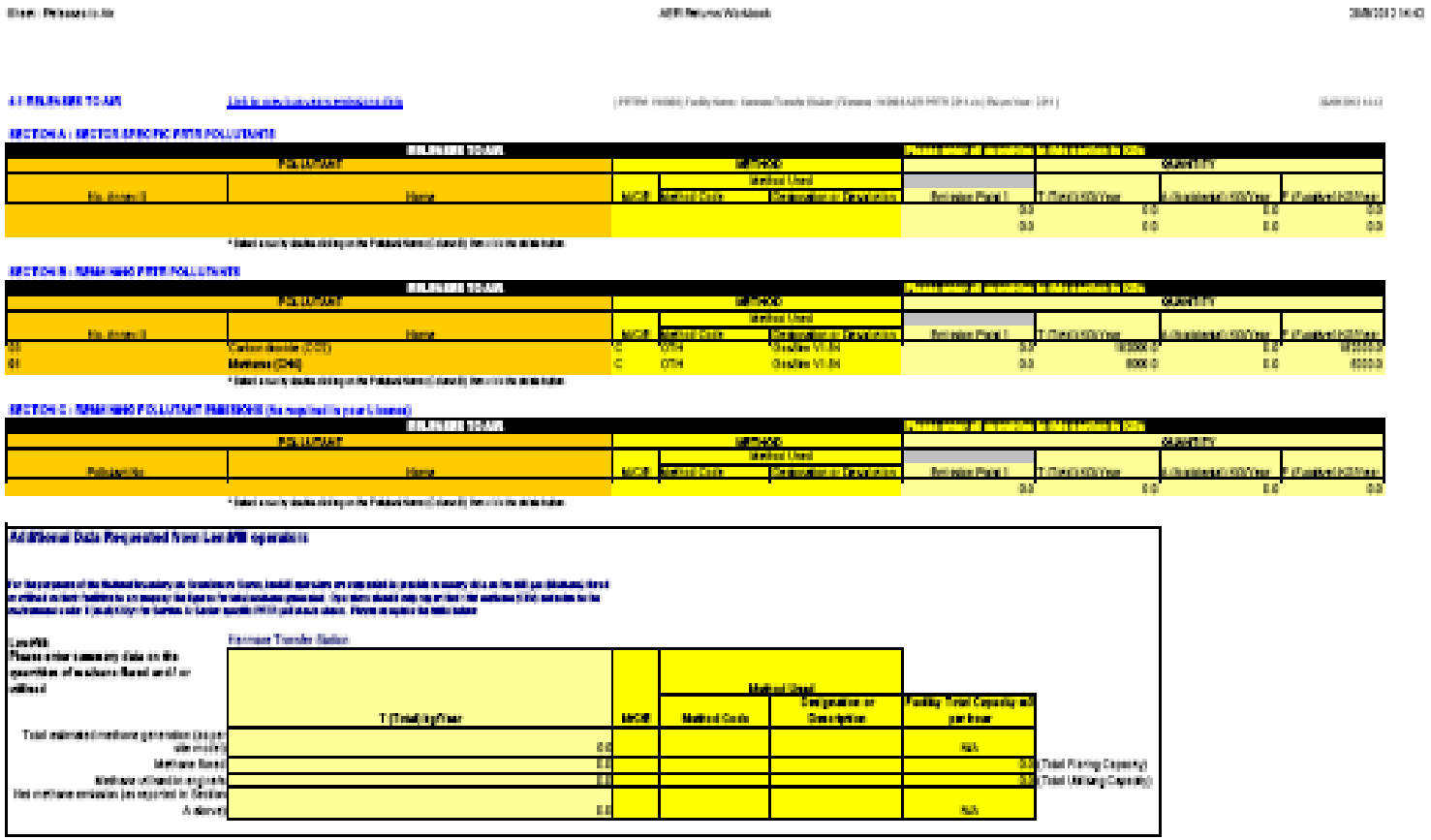
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
50.1	General

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

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



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4.4 RELEASES TO LAND

SECTION A : PRTR POLLUTANTS

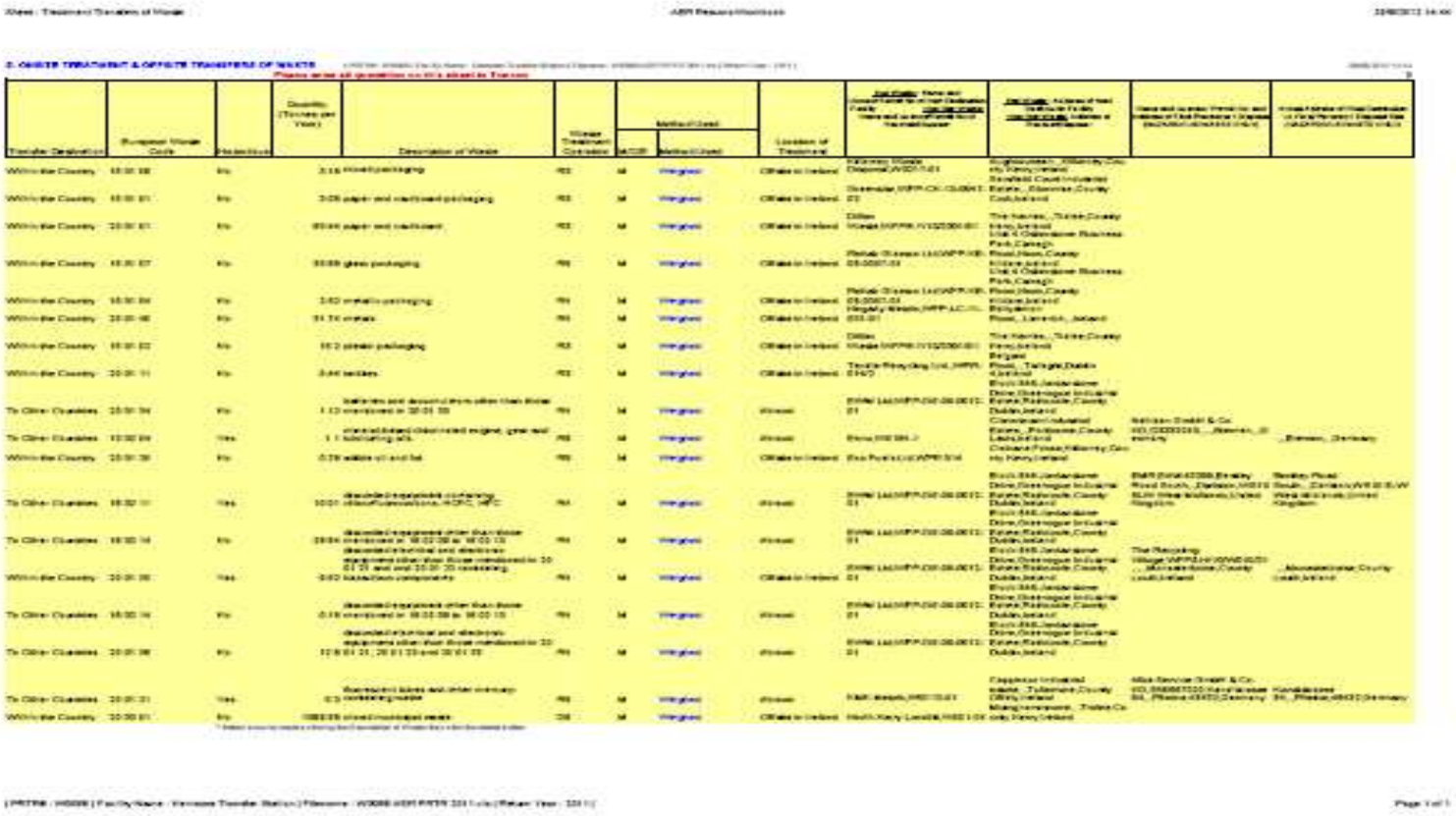
RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
		Method Used					
No. Annex II	Name	M/C/E	Emission Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	0.0	0.0

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required by 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	Emission 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



Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Code		Location of Treatment			
Within the Country		Yes									
Within the Country		Yes									
Within the Country		Yes									
Within the Country		Yes									
Within the Country		Yes									
Within the Country		Yes									
Within the Country		Yes									
Within the Country		Yes									
To Other Countries		Yes									
To Other Countries		Yes									
Within the Country		Yes									
To Other Countries		Yes									
To Other Countries		Yes									
Within the Country		Yes									
To Other Countries		Yes									
To Other Countries		Yes									
Within the Country		Yes									