

ANNUAL ENVIRONMENTAL REPORT.

Kenmare Transfer Station.

Licence ref. No 86 – 1.

2009

MARCH 2010

1) **Reporting Period** 01/01/09 to 31/12/09.

2) **Details of Activity**

The principal activity of the Transfer Station is the compaction of solid waste into 30cu. metre closed containers for subsequent disposal to landfill in accordance with Class 12 of the Third Schedule of the Waste Management Act, 1996.

Other activities include recycling or reclamation of metals in accordance with Class 3 of the Fourth Schedule, recycling or reclamation of inorganic materials including domestic quantities of glass, plastic bottles, aluminium cans, car batteries, dry cell batteries, fluorescent tubes, aerosols, pesticides, herbicides, oil based paints and varnishes and newspapers.

3) **Volume and composition of waste received during the year.**

During the period from 1st Jan 09 to 31st Dec '09 the following quantities of waste were accepted at the transfer station.

Waste Accepted	Tonnages
Municipal Waste Collected by Local Authority	101.78
Municipal Waste collected by Private Contractors	140.16
Commercial Waste & Industrial	207.48
Street Cleaning	2.42
Flytipping	12.08
Public Domestic Waste	953.24
Graveyard Waste	0
KCC Housing Waste(i.e. from refurbishments)	10.84
Total Waste for Disposal	1428

Waste for Recycling & Recovery	Tonnages	Tonnages	Tonnages	Tonnages
	2005	2006	2008	2009
Metals	5	0	0	23.42
Glass	39	128.04	35.0	43.1
Aluminium	0.2	2.22	3.2	1.1
Batteries	5	9.44	13.2	7.7
Newspapers	60	104	115.0	100.48
Cardboard	0	0	0	2.5
Flourescent Tubes	0.2	0.1	0.34	0.28
Domestic Hazardous Waste	0.2	0.4	0.13	0.92est
Plastic Bottles	7	8.8	11.5	13.24
Waste Engine Oil	0	1.4	1.8	1.8 est
WEEE	30.82	83.59	95.70	79.07
Cooking Oil	0	0	0	0.79
Total for recycling & recovery	147	337.99	275.87	274.44

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

KCC expect tonnages of recyclables to remain steady during the year.

5) Summary report on Emissions, including wastes from silt traps and interception sumps.

A total of approximately 10 tonnes of sludge were removed from the grease trap and the foul water treatment unit for subsequent disposal at the Kenmare Wastewater Treatment plant.

5.1) Foul Water Emmissions

Foul water from the Puraflo treatment unit is discharged to the surface water drains. This foul water is collected from the transfer station shed, from the compactor and the bin transverse area. It comprises wash water and rainwater falling on the contaminated areas. The quantity of foul water discharged is not actually measured. The foul water discharge is monitored on a qualitative basis.

5.2) Surface Water Emmissions

Surface water is water runoff from site roads and uncontaminated surfaces discharge, via silt traps, to the surface water drains. An oil interceptor is fitted on the surface water discharge pipe from the bin marshalling yard. This area is used by trucks picking up and

dropping bins and is the only area within the surface water drainage catchment where any significant danger of an oil spill exists.

There are no other emissions of any environmental significance from the facility.

6) Summary of results and interpretations of Environmental Monitoring.

6.1 Dust monitoring.

No dust monitoring was carried out in 2009 as per the verbal agreement reached with the EPA.

6.2 Noise monitoring.

No Noise monitoring was carried out this year as per the verbal agreement with the EPA.

Please note that noise and dust nuisance has been well established over the years as not causing a problem at this facility. As a result it has been discontinued.

6.3 Monitoring of surface water.

The summary of the surface water monitoring results is available at the Kenmare WTS.

Again as in previous years an impact was noted judging from Ammonia levels at SW1 and SW3. However it is more probable that impact at this point is from the old landfill activities rather than the transfer station.

6.4 Foul Water

Foul water emissions are monitored every quarter. They showed no exceedances of limits set down in the licence.

6.5 Landfill gas Monitoring.

The landfill gas results for methane were restored to typical levels for this landfill. Further details are available onsite for inspection at the Kenmare WTS. Landfill gas monitoring is now carried out once every six months as agreed by the EPA in the restoration plan for the old landfill site.

7) Resource Consumption Summary

Diesel

Diesel usage during the period was approximately 916 litres.

Electricity

Electricity usage at the facility was estimated at 4638 units. The main power requirement on site is office heating, water pumping and on-site lighting.

Water

Water supply to the site is from a groundwater borehole on site. Water usage on site is mainly for power washing yards, transfer station apron and hopper and washing of bins where required. While consumption is not metered it is estimated at a steady 200,000 litres during the reporting period.

8) Development works undertaken during the period.

None undertaken.

9) Schedule of Environmental Objectives and Targets.

An updated schedule of environmental objectives and targets has been submitted to the agency and a copy is enclosed in the Appendix. This schedule sets out a series of objectives and a timescale for their achievement.

10) Report on progress towards achievement of Environmental Objectives and Targets in previous years report.

1. Landfill restoration has been a great success, in particular, the native grass planting has established itself very well.
2. Expansion of the facility is unlikely in the current financial climate. However the provision of clothes, scrap metal and the introduction of a cardboard baler for domestic use in 2009 should ensure the continued attractiveness of the facility.
3. Cardboard, clothes and scrap metal facilities were provided on site during 2009.
4. The WEEE collection unexpectedly reduced in 2009.

11) Reported Incidents and Complaints Summaries.

No complaints were recorded in relation to the operation of the facility during the past year.

In general there was a good response from the general public with respect to recycling.

12) Report on financial provisions made under this licence, management and staffing structure of the facility and a programme for public information.

A fee of €210/tonne was charged on all waste presented at these facilities to meet the operating costs.

- 13) Appendix A. Financial Summary.**
Appendix B. Management Structure.
Appendix C. Organisation Chart.
Appendix D. Communications Programme.
Appendix E. Environmental Objectives and Targets.
Appendix F. Gas Summary.
Appendix G. Foul & Surface Water Summary.

14) Communications Programme.

The Council are pro-active in issuing information to the public on recycling services available at the facility through the press and public advertisements. Information is also provided at the transfer station through the site manager and promotional leaflets on recycling services available at the facility.

Appendix A

The estimated cost of operation of the facility for the year 2009.

WASTE COSTS SUMMARY 2009.

Accelem(T)	Job	Job(T)	EURO
Wages	5111007B	Kenmare Transfer Stn	28,434.84
Salaries	5111007B	Kenmare Transfer Stn	3,062.76
ER PRSI	5111007B	Kenmare Transfer Stn	4,486.94
Overtime	5111007B	Kenmare Transfer Stn	10,411.60
Arrears	5111007B	Kenmare Transfer Stn	404.88
Annual Leave	5111007B	Kenmare Transfer Stn	4,883.42
Bank Holiday Leave	5111007B	Kenmare Transfer Stn	826.87
Travel/Subsistence	5111007B	Kenmare Transfer Stn	3,220.83
Other Allowances	5111007B	Kenmare Transfer Stn	1,797.78
Minor Contracts- Trade Services & other works	5111007B	Kenmare Transfer Stn	73,941.77
Hire (Ext) - Plant/Transport/Machinery & Equipment	5111007B	Kenmare Transfer Stn	22.53
Repairs & Maint – Plant	5111007B	Kenmare Transfer Stn	498.45
Repairs & Maint - Other Equip	5111007B	Kenmare Transfer Stn	902.33
Transfers from Machinery Yard	5111007B	Kenmare Transfer Stn	4,546.00
Other Vehicle Expenses	5111007B	Kenmare Transfer Stn	88.00
Materials	5111007B	Kenmare Transfer Stn	1,411.01
Issues from Stores	5111007B	Kenmare Transfer Stn	3,395.46
Returns to Stores	5111007B	Kenmare Transfer Stn	-97.78
Insurance	5111007B	Kenmare Transfer Stn	149.55
Staff Travelling & Subsistence Expenses	5111007B	Kenmare Transfer Stn	3,977.50
Communication Expenses	5111007B	Kenmare Transfer Stn	510.98
Courier	5111007B	Kenmare Transfer Stn	20.00
Security – Property	5111007B	Kenmare Transfer Stn	328.05
Consultancy/Professional Fees and Expenses	5111007B	Kenmare Transfer Stn	-674.33
Printing & Office Consumables	5111007B	Kenmare Transfer Stn	751.26
Statutory Contributions to Other Bodies	5111007B	Kenmare Transfer Stn	5,374.00
Energy	5111007B	Kenmare Transfer Stn	1,731.83
			154,406.53

RECYCLING COSTS SUMMARY 2009.

Accelem(T)	Job	Job(T)	EURO
Wages	5020005X	Kenmare Transfer Stn Recycling	6,541.46
Salaries	5020005X	Kenmare Transfer Stn Recycling	3,062.76
ER PRSI	5020005X	Kenmare Transfer Stn Recycling	1,150.21
Overtime	5020005X	Kenmare Transfer Stn Recycling	1,406.45
Arrears	5020005X	Kenmare Transfer Stn Recycling	4.98
Sick Pay	5020005X	Kenmare Transfer Stn Recycling	283.70
Annual Leave	5020005X	Kenmare Transfer Stn	283.70

		Recycling	
		Kenmare Transfer Stn	
Bank Holiday Leave	5020005X	Recycling	141.85
		Kenmare Transfer Stn	
Travel/Subsistence	5020005X	Recycling	659.82
		Kenmare Transfer Stn	
Other Allowances	5020005X	Recycling	229.08
		Kenmare Transfer Stn	
Minor Contracts- Trade Services & other works	5020005X	Recycling	150
		Kenmare Transfer Stn	
Communication Expenses	5020005X	Recycling	98.6
		Kenmare Transfer Stn	
Advertising	5020005X	Recycling	144.46
		Kenmare Transfer Stn	
Printing & Office Consumables	5020005X	Recycling	206.15
		Kenmare Transfer Stn	
Statutory Contributions to Other Bodies	5020005X	Recycling	3,000.00
			17,363.22

Appendix B

MANAGEMENT STRUCTURE

Responsibilities of Personnel

Denis O Connor responsible for

- Overall implementation of Waste Management Plan for the county.
- Development of waste management infrastructure.
- Development of waste management policy for the county.
- Groundwater and Surface water protection.
- Allocation of responsibilities to staff
- Senior Budget Holder for the Department.

Fehily Timoney & Co. responsible for;

- Design of facility
- Preparation of landfill closure plan
- Preparation of contract documents for future developments
- Provision of technical advice
- Assistance in liasing with EPA.

David Lenihan responsible for;

- Carrying out of monitoring of surface water and groundwater for the parameters and at the frequency required by the licence and the interpretation of these results.

John Aherne responsible for;

- Overall implementation of the licence.
- Overseeing correspondence to the Agency in relation to the licence.
- Waste management throughout the county..
- Overall review of Licence implementation.
- Establishment of the Environmental Management Programme.
- Overall implementation of closure plan for old landfill.
- Senior Budget Holder for Waste Management.

Pat Phelan responsible for;

- Correspondence to the Agency required by the licence.
- Inspection of the site regularly to ensure compliance with licence.
- Organisation and provision of staff training.
- Preparation of procedures required by licence.
- Ensuring required monitoring is carried out in accordance with the licence.
- Ensuring appropriate reports are forwarded to EPA at the required intervals.
- Preparation of EMP and AER
- Ensuring accurate records are compiled and maintained by relevant staff.

- regular inspection of the facility
- inspection of site records
- ensuring all nuisance control procedures are carried out
- Landfill gas monitoring.

John Mannix responsible

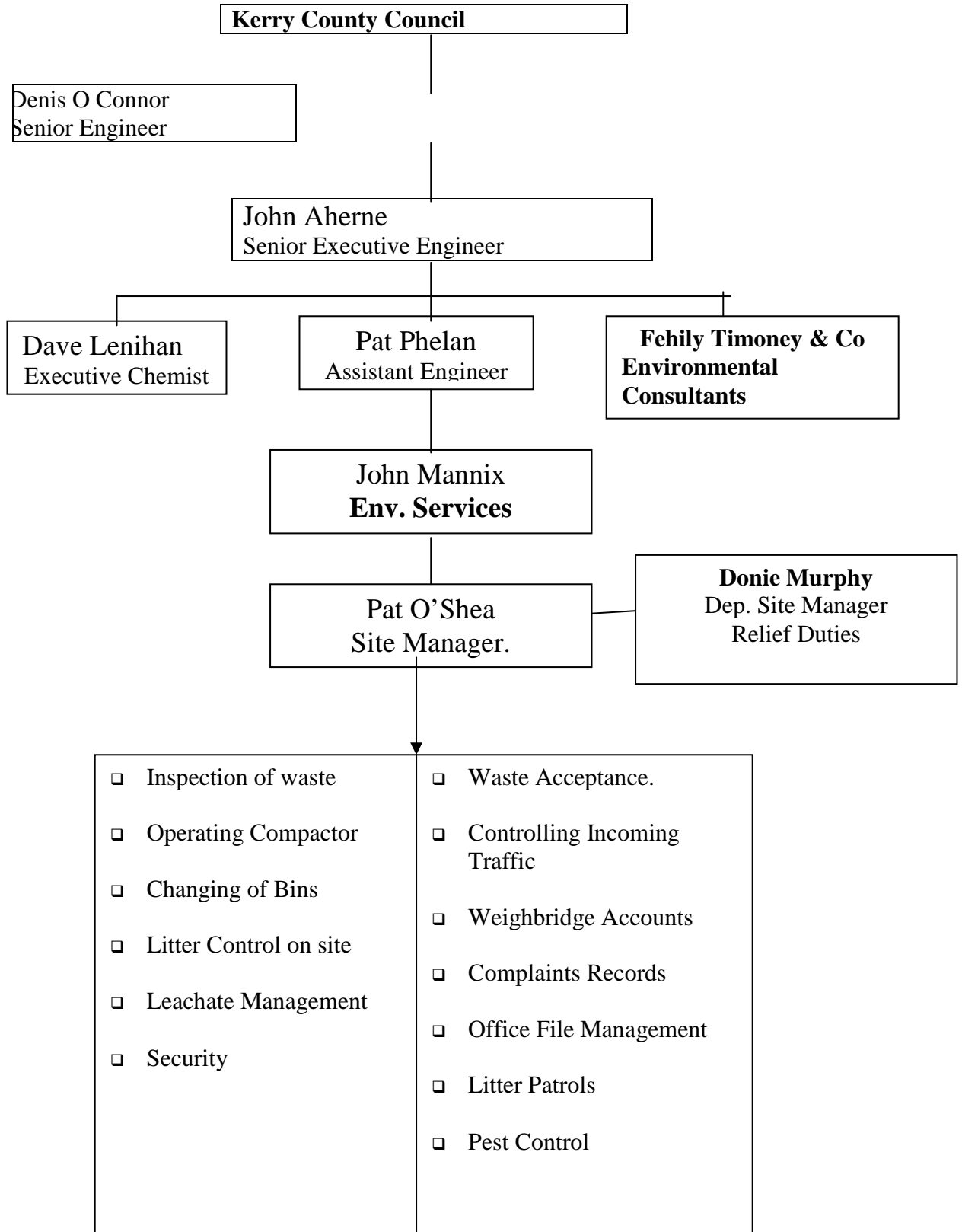
- Staffing and relief operatives.

Pat O'Shea and/or Dep. Manager;

- Office file management
- Weighbridge records
- Control of waste accepted at the facility.
- Controlling traffic on site.
- Litter patrol
- Weekly inspection for nuisances, inspection of surface water drains and oil interceptors and records of same.
- Complaints records, incident records
- Organising regular removal of waste bins and materials from Civic Amenity area.
- operation of compactor
- site cleanliness
- foul water management
- security

**APPENDIX C.
ORGANISATION CHART**

Kenmare Transfer Station



Kenmare Transfer Station.

Site Manager/Control Room Supervisor Mr.Pat O Shea.

Mr. Pat O' Shea is an experienced operative with the council having previously worked in the old Kenmare Landfill as the site foreman. He has undertaken successfully the FAS waste operative training programme.

He has been provided with training on the operation and management of the transfer station. He also understands the importance of keeping records and complying with legislation. He will be provided with training to allow him to manage the site in accordance with the waste licence and health & safety standards.

Environmental Services Supervisor Mr John Mannix.

Mr John Mannix is in the position of Environmental Services Supervisor since November '00. Previously he was litter warden for South Kerry since April '00. From June '94 to April '00 he worked in Castleisland as traffic warden and litter warden. He had been employed previously from Sept '82 as a road worker in the Killarney area.

He has responsibility for regular supervision of refuse collection service and the transfer stations. He is responsible for ensuring that the transfer station is operated and maintained properly by the site operatives. He is also responsible for ensuring that the operatives are supplied with all necessary equipment, tools, safety gear, etc. and that relief staff are available to cater for absences of the site manager. His experience as litter warden ensures he has experience of implementing the Litter Act. He also understands the importance of keeping records and complying with legislation.

Assistant Engineer Environment Dept. Mr. Pat Phelan B.E. qualified in 1986 with a degree in Civil Engineering and has recently completed a Diploma in Project Management. He has also completed the FAS Waste Management Training course between September 2004 and December 2004. He has previously worked in Construction & Civil Engineering in the UK and has spent 5 years in the Highways Agency working mainly in Environmental Research.

Mr. Phelan has direct responsibility for the 4 Transfer Stations in Kerry.

Act. Senior Exec. Engineer John Aherne. B.E.

Mr. John Aherne, B.E. MIEI. H.Dip Environmental Engineering. Qualified in UCG, 1995. He has worked with Kerry County Council since 1997 and has extensive experience in the Roads Dept. John has also completed the FAS Waste Management course. He has direct responsibilities for Waste Management.

Appendix D.

Kenmare Transfer Station

Licence Ref. No 86-1

COMMUNICATIONS PROGRAMME

Jan 2010

Kerry County Council have the following files available for public inspection on request at the transfer station.

	Title of Report	Submitted to EPA	Agreed by EPA
1.	Waste Licence for Kenmare Transfer station.	-	Yes
2.	Corrective Action procedure.	02/01	Yes
3.	Emergency response procedure.	03/01	Yes
4.	Communications Programme.	01/03	-
5.	Awareness & Training Procedure	02/01	Yes
6.	Environmental Management Programme	02/07	-
7.	Annual Environmental Report	02/10	-

Kerry County Council have the above listed files plus the following files available for public inspection on request at the Environment Dept., Kerry County Council, County Buildings, Rathass, Tralee, Co. Kerry.

	Title of Report	Submitted to EPA	Agreed by EPA
1.	Six monthly reports on Surface Water monitoring, Foul Water monitoring and landfill gas monitoring.	Yes	-
2.	Annual reports on Noise monitoring, Dust monitoring.	Yes	-
3.	Records of Incidents	Yes	-
4.	Restoration and aftercare plan for old landfill site.	05/01	Yes
5.	Decommissioning & After care plan for Transfer Station.	08/01	Yes
6.	AER	02/10	-
7.	EMP	02/07	-
8.	EMS	02/06	-

Appendix E. Environmental Objectives and Targets

Objective	Target
1. Encourage the public to recycle their waste.	Increase recycling by: a) Providing information leaflets at the site office on home composting b) Providing information leaflets on the recycling facilities available at the civic amenity area. c) Promote the facility in the local community.
2. Encourage the public to recycle specifically their WEEE (Waste Electrical and Electronic Equipment).	Remain steady.
3. Specifically target increases in Cardboard, Scrap Metal & Clothes collections.	Increase by 10%.

Responsibility. The Executive Engineer in charge will have responsibility for implementation of the objectives and targets. The Senior Engineer Environment Dept will have responsibility for allocating staff and resources to implement the objectives and targets.

Appendix F. Gas Summary.

Kenmare Waste Transfer Station & Civic Amenity Site

Date	Ref.	CH4 % v/v	CO2 % v/v	O2 % v/v	Atm. Pressure Mbar	Temperature Degrees Celcius
14 th -Oct 08	L1	52.3	28.5	1.1	1002	14
20 th - May 09	L1	48.7	29.3	2.4	998	16
10 th -Dec 09	L1	50.9	27.4	1.6	1004	8

Comments: Results for monitoring were restored to previous typical levels.

Appendix G. Foul & Surface Water Summary.

Attn: Pat Phelan, EE Waste Management **27 January 2010**
Re: Foul Emission Results for Transfer stations: July to Dec 2009

Please see summary comments for foul water emissions for 2009.

Kenmare foul emissions exhibited no significant exceedances of limits during this reporting period

David Lenihan MSc
Senior Executive Chemist

Attn: Pat Phelan EE Waste Management **27/01/2010**
Re: Surface water Results for Transfer stations : Jul to Dec 2009

Please see surface water summary for 2009.

Kenmare

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

David Lenihan MSc
Senior Executive Chemist

