

ANNUAL ENVIRONMENTAL REPORT.

Cahirsiveen Transfer Station.

Licence ref. No 87 – 1.

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, domestic hazardous waste, car batteries, dry cell batteries, fluorescent tubes, oil based paints and varnishes and newspapers.

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

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

Waste Type	Tonnage 2009
Municipal Waste by Private Contractors	
Municipal Waste	664.98
Commercial Waste	102.72
Flytipping	28.06
Road Sweepings	43.74
Industrial Waste	0
Public Domestic Waste	714.08
Graveyard Waste	1.0
Total Waste for Disposal	1554.58

Waste for Recycling & Recovery	Tonnage	
	2009	2008
Glass	20.55	17.8
Metals	28.70	0
Paper	66.9	67.0
Aluminium	0.77	0.66
Plastic Bottles	4.81	4.57
WEEE	72.385	95.71
Dry Recyclables	243.2	4.8
Waste Oil	1.88	0
Batteries	5.46	1.7
Domestic Hazardous Waste	0.6est	0.13
Textiles	2.78	2.84
Cooking Oil	0.24	0
Cardboard	4.82	0
Total for recycling & recovery	453.09	195.21

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

Recycling for 2009 has increased significantly compared to 2008. This was mainly due to the collection of dry recyclables from the refuse trucks at the facility. Also of note was the successful introduction of the scrap metal collection which yielded nearly 30 tonnes. There was a decrease in the WEEE collection. Also there was modest tonnage increase with the introduction of the domestic cardboard collection.

The collection of paper remained steady whilst there was an approximately 10% increase in the glass bottle collection.

For the coming year we expect more modest increases in the amount of recycling carried out, probably in the line of 5%.

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

A total of approximately 36 tonnes of silt/sludge were removed from the grease trap and the foul water treatment unit for subsequent disposal at the Cahersiveen Wastewater Treatment plant.

5.1) Foul Water Emmissions

Caherciveen WTS showed no exceedances in foul water emissions during the two six monthly monitoring periods.

5.2) Surface Water Emmissions

Exceedances in the limits of surface water was noted at SW3 & SW5. However since the condition of the foul effluent has been compliant for some time, therefore the impact noted would appear to be coming from old landfill activities.

6.1 Dust monitoring.

This is well established from previous and it was agreed this year that this monitoring would not be needed in future as patterns are well established.

6.2 Noise monitoring.

This is well established from previous and it was agreed this year that this monitoring would not be needed in future as patterns are well established.

6.3 Monitoring of surface water.

As the surface water drain is adjacent to the old landfill, it may suffer some impact from drainage of small quantities of leachate from this. Also samples taken from surface water drains may be affected by sediment from the base of the drain which is disturbed when the sample is being taken. This may account for the high levels of Suspended Solids recorded in some of the surface water drains.

6.4 Foul Water

Foul water from the facility is monitored every quarter and usually reported every six months and exhibited no exceedances.

6.5 Landfill gas Monitoring.

Results for methane were typical of previous years and are not abnormal for this site.

6) Resource Consumption Summary

Diesel

Diesel usage during the period was approximately 2335 litres.

Electricity

Electricity usage at the facility amounted to an estimated 9666 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. The consumption was estimated at 200,000 litres during the reporting period.

7) Development works undertaken during the period.

No development works were undertaken.

8) Schedule of Environmental Objectives and Targets.

A revised schedule of environmental objectives and targets has been set and is enclosed in the Appendix. This schedule sets out a series of objectives and a timescale for their achievement.

9a) Report on progress towards achievement of Environmental Objectives and Targets in previous years report.

1. Overall collection of recyclables increased by 230%, mainly due to the refuse collection disposing of dry recyclables at the facility.
2. The increase is a more modest 10% when the mixed dry recyclable refuse collection is not counted.
3. New safety procedures were implemented.
4. Land has yet to be purchased for widening of access road.
5. New financial procedures were implemented during 2009.

9) Full title and written summary of any procedures developed by the licensee during the previous year.

No additional environmental procedures have been developed during the reporting period.

Comprehensive Financial procedures were implemented during the year, 2009.

Health & Safety procedures continued to be developed during 2009.

10) Drum, Tank and Bund Testing.

No leakage was noted during 2009.

11) Reported Incidents and Complaints Summaries.

No incidents were reported during the reporting period. Complaints were received in relation to the access to the facility during the reporting period. Kerry County Council sanctioned surface dressing of the entire access road to be completed during

the summer of 2008. However KCC held off on this due to the possible purchase of land to widen the road to the facility. This still held true for 2009 and negotiations are continuing with the landowner.

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

Appendix A lists the estimated cost of operation of the facility for the year 2009.

Appendix B shows the present staffing arrangements.

Appendix C. Organisation Chart.

Appendix D. Communications Programme.

Appendix E. Environmental Objectives and Targets.

Appendix F. Gas Summary.

Appendix G. Foul & Surface Water Summary.

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	5111004H	Cahersiveen Transfer Stn	29,095.70
Salaries	5111004H	Cahersiveen Transfer Stn	3,062.76
ER PRSI	5111004H	Cahersiveen Transfer Stn	4,424.08
Overtime	5111004H	Cahersiveen Transfer Stn	9,767.48
Arrears	5111004H	Cahersiveen Transfer Stn	400.72
Sick Pay	5111004H	Cahersiveen Transfer Stn	812.99
Annual Leave	5111004H	Cahersiveen Transfer Stn	2,617.29
Bank Holiday Leave	5111004H	Cahersiveen Transfer Stn	965.01
Travel/Subsistence	5111004H	Cahersiveen Transfer Stn	3,067.53
Other Allowances	5111004H	Cahersiveen Transfer Stn	1,747.98
Minor Contracts- Trade Services & other works	5111004H	Cahersiveen Transfer Stn	65,700.25
Non-Capital Equip Purchase - Other	5111004H	Cahersiveen Transfer Stn	400.95
Hire (Ext) - Plant/Transport/Machinery & Equipment	5111004H	Cahersiveen Transfer Stn	93.52
Repairs & Maint - Plant	5111004H	Cahersiveen Transfer Stn	11,694.48
Repairs & Maint - Other Equip	5111004H	Cahersiveen Transfer Stn	737.75
Transfers from Machinery Yard	5111004H	Cahersiveen Transfer Stn	5,239.50
Other Vehicle Expenses	5111004H	Cahersiveen Transfer Stn	88.00
Materials	5111004H	Cahersiveen Transfer Stn	1,925.39
Issues from Stores	5111004H	Cahersiveen Transfer Stn	8,502.20
Returns to Stores	5111004H	Cahersiveen Transfer Stn	-251.34
Insurance	5111004H	Cahersiveen Transfer Stn	149.55
Staff Travelling & Subsistence Expenses	5111004H	Cahersiveen Transfer Stn	2,629.83
Communication Expenses	5111004H	Cahersiveen Transfer Stn	1,004.71
Courier	5111004H	Cahersiveen Transfer Stn	93.64
Security - Property	5111004H	Cahersiveen Transfer Stn	711.18
Consultancy/Professional Fees and Expenses	5111004H	Cahersiveen Transfer Stn	-674.33
Printing & Office Consumables	5111004H	Cahersiveen Transfer Stn	182.26
Statutory Contributions to Other Bodies	5111004H	Cahersiveen Transfer Stn	5,374.00
Energy	5111004H	Cahersiveen Transfer Stn	2,957.63
			162,520.71

RECYCLING COSTS SUMMARY 2009.

Accelem(T)	Job	Job(T)	EURO
Wages	5020003X	Caherciveen T/F Stn Recycling	5,798.02
Salaries	5020003X	Caherciveen T/F Stn Recycling	3,062.76
ER PRSI	5020003X	Caherciveen T/F Stn Recycling	1,211.71
Overtime	5020003X	Caherciveen T/F Stn Recycling	2,034.46
Arrears	5020003X	Caherciveen T/F Stn Recycling	4.98
Annual Leave	5020003X	Caherciveen T/F Stn Recycling	1,524.89
Bank Holiday Leave	5020003X	Caherciveen T/F Stn Recycling	423.91
Travel/Subsistence	5020003X	Caherciveen T/F Stn Recycling	618.69

Other Allowances	5020003X	Caherciveen T/F Stn Recycling	311.25
Staff Travelling & Subsistence Expenses	5020003X	Caherciveen T/F Stn Recycling	800.11
Communication Expenses	5020003X	Caherciveen T/F Stn Recycling	78.06
Advertising	5020003X	Caherciveen T/F Stn Recycling	144.46
Statutory Contributions to Other Bodies	5020003X	Caherciveen T/F Stn Recycling	3,000.00
			19,013.30

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 liaising 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
- deal with implementation of Litter Control Act.
- Landfill gas monitoring.

John Mannix responsible

- Staffing and Relief Operatives.

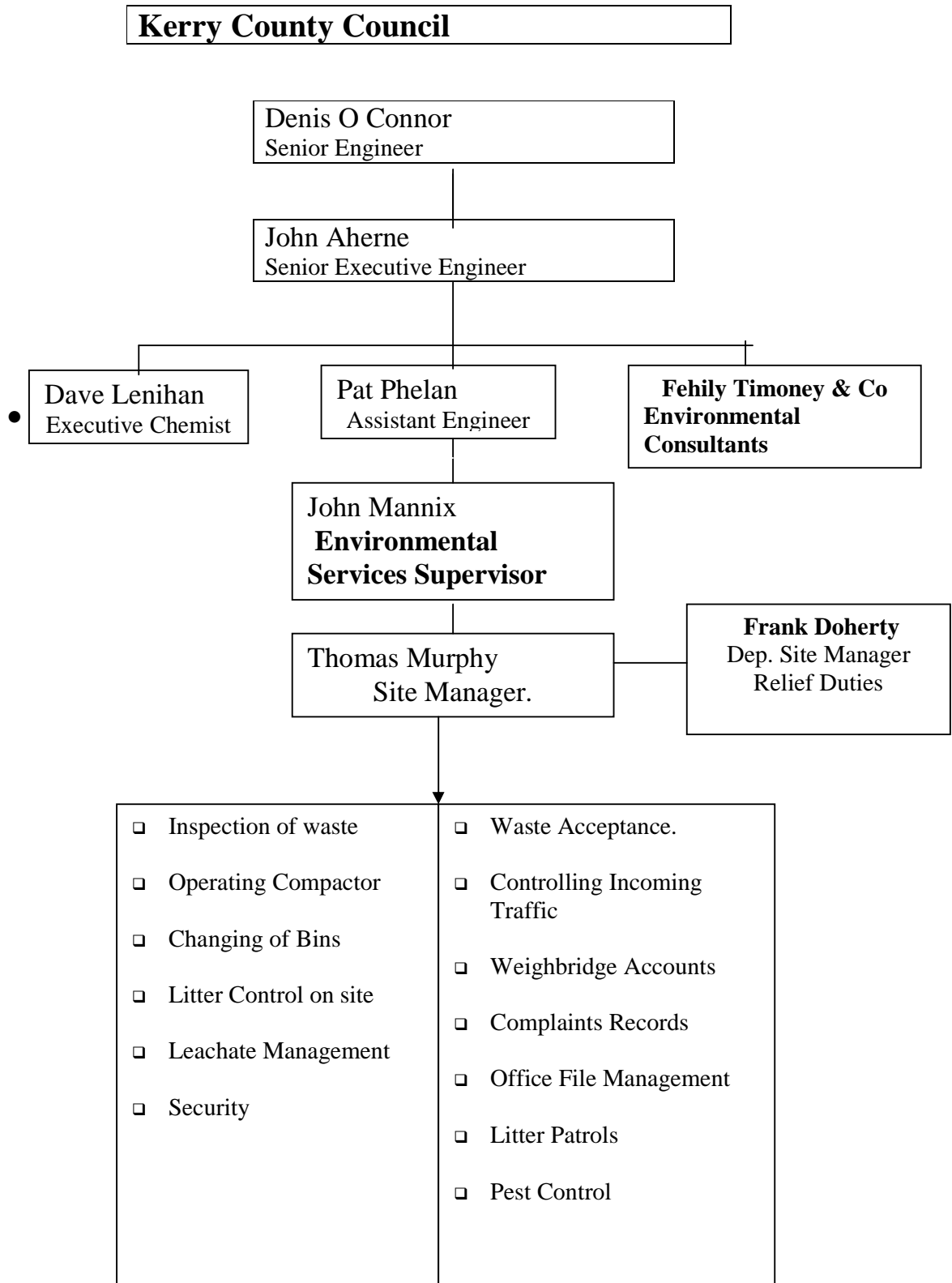
Tom Murphy and/or Dep. Manager;

- 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

Cahirsiveen Transfer Station



Cahirsiveen Transfer Station.

Site Manager. Mr Thomas Murphy

Mr Tom Murphy has been employed by Kerry Co. Council since 1995 as site manager on the old Cahirsiveen landfill site and more recently on the temporary transfer station. Prior to that he was employed as a road operative in the Cahirsiveen area since 1981.

He is capable of managing and controlling a site and has shown his capabilities over quite a number of years. He is also capable of maintaining appropriate records as required.

Mr Murphy does not have any formal qualification relevant to the post but has gained substantial experience during his time operating the landfill site.

He will also be provided with additional training on the proper management of the site as required. In the absence of formal training organised by FAS then the training will be provided by experienced Council personnel.

Environmental Services Supervisor Mr. John Mannix.

Mr John Mannix as Environmental Services Supervisor 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.

Mr Mannix was prior to this a litter warden for South Kerry from 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 roads foreman in the Killarney area.

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.

Relief /Deputy site manager Mr Frank Doherty.

Frank previously worked as a fitter for Liebher, Killarney and now has over a year's extensive on the job experience as a site manager at our Dingle Civic Amenity Site. He has also completed the FAS Waste Facility Operative training.

Act. Senior Exec. Engineer John Aherne.

John qualified as a B.E. Civil Engineering from UCC in 1995 and also has a diploma in Environmental Engineering. He has extensive experience in the Roads Section of Kerry County Council and has undertaken the FAS Waste Management Certificate.

Assistant Engineer Environment Dept. Mr. Pat Phelan B.E. qualified in 1986 with a degree in Civil Engineering and has completed a Diploma in Project Management in 2005. 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/CA sites in Kerry and one newly designed Civic Amenity site.

Appendix D.

Cahirsiveen Transfer Station

Licence Ref. No 87-1

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 Cahirsiveen Transfer station.	-	-
2.	Corrective Action procedure.	03/01	Yes
3.	Emergency response procedure.	04/01	Yes
4.	Communications Programme.	01/02	-
5.	Awareness & Training Procedure	03/01	Yes
6.	AER	02/10	-
7.	EMP & EMS	02/06	-

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 & EMS	02/06	-

A list of these all the above files and their location will be placed in a prominent location at the site office in the transfer station. The list will be updated as new reports become available.

Appendix E. Environmental Objectives and Targets.

Objective	Target
1.Continue to promote recycling in all forms.	Tonnages to remain steady.
2. Promotion in particular of new Scrap Metal collection.	10% increase by end 2010.
3. Improve access by widening to make it more desirable for customers to use facility.	December 2010.
4. Promotion in particular of new cardboard collection.	10% increase by end of 2010.

Responsibility. The Supervising 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.

Caherciveen Waste Transfer Station & Civic Amenity Site

Date	Ref.	CH4 % v/v	CO2 % v/v	O2 % v/v	Atm. Pressure Mbar	Temperature Degrees Celcius
6 th -Oct-08	L1a	6.8	2.5	20.1	1008	15
13 th -May-09	L1a	5.4	3.3	21.4	1010	16
3 rd -Dec-09	L1a	6.9	3.4	20.9	1005	8

Comments: Monitoring results were low due to alternative borehole being used.

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 note the following summary for foul emissions:

Caherciveen did have two exceedances in suspended solids limit

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 note the following summary for surface water results.

Caherciveen:

Significant deterioration in status at SW5 is evident by high level of Ammonia. This is unacceptable for a site so close to watercourse. However since condition of foul effluent have been compliant for some time the impact noted here would appear to have been coming from old landfill activities. ***Further vigilance and investigation is recommended***

David Lenihan MSc
Senior Executive Chemist

Action: Upstream and Downstream properties of the Carhan River will be investigated in Caherciveen in 2010 to check for any impact of the facility.

