ANNUAL ENVIRONMENTAL REPORT.

Kenmare Transfer Station.

Licence ref. No 86 – 1.

2008

MARCH 2009

1) **Reporting Period** 01/01/08 to 31/12/08.

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 08 to 31st Dec '08 the following quantities of waste were accepted at the transfer station.

Waste Accepted	**Tonnages**
Municipal Waste Collected by Local Authority	99.28
Municipal Waste collected by Private Contractors	130.44
Commercial Waste	206.4
Street Cleaning	0.5
Industrial Waste	68.14
Flytipping	24.5
Public Domestic Waste	1129.16
Graveyard Waste	0.3
Total Waste for Disposal	**2171.7**

Waste for Recycling & Recovery	Tonnages	Tonnages	Tonnages
	2005	**2006**	**2008**
Metals	5	0	0
Glass	39	128.04	35.0
Aluminium	0.2	2.22	3.2
Car Batteries	5	9.44	13.2
Newspapers	60	104	115.0
Cardboard	0	0	0
Flourescent Tubes	0.2	0.1	0.34
Domestic Hazardous Waste	0.2	0.4	0.13
Plastic Bottles	7	8.8	11.5
Waste Engine Oil	0	1.4	1.8
WEEE	30.82	83.59	95.70
Total for recycling & recovery	**147**	**337.99**	**275.87**

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

All quantities of recycling show an upward trend with the exception of glass. The reduction in the glass collection is due to the removal of the flat glass collection during 2007. Otherwise the trend is upwards.

Projections for 2009 are for a modest increase in tonnage overall.

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 2008 due to the high rainfall experienced over the summer months.

Kerry County Council (KCC) is satisfied that there was not any significant dust created as a result of the operations at the WTS.

6.2 Noise monitoring.

Noise monitoring is carried out annually at three points on site. A detailed account of the annual noise monitoring report accompanies this report with an executive summary attached.

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 emmissions 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 1400 litres.
Electricity
Electricity usage at the facility was estimated at 5500 units which was slightly up on the last reporting period. 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.

The native grasses planted after the restoration of the old landfill continued to establish themselves well.

The WEEE slab continued to operate well and is able to cope with local economic quantities of WEEE thus ensuring the best use of transport to the site for the collection of this material.

A bay was established for the provision of a used Clothes Container and a scrap metal skip.

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.

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.
Appendix H. Noise 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 2008.

Accelem(T)	Job	Job(T)	EURO
Wages	5111007B	Kenmare Transfer Stn	22,544.15
Salaries	5111007B	Kenmare Transfer Stn	2,059.06
ER PRSI	5111007B	Kenmare Transfer Stn	3,876.95
Overtime	5111007B	Kenmare Transfer Stn	12,193.72
Arrears	5111007B	Kenmare Transfer Stn	359.5
Sick Pay	5111007B	Kenmare Transfer Stn	138.38
Annual Leave	5111007B	Kenmare Transfer Stn	3,605.99
Bank Holiday Leave	5111007B	Kenmare Transfer Stn	138.38
Travel/Subsistence	5111007B	Kenmare Transfer Stn	4,345.59
Other Allowances	5111007B	Kenmare Transfer Stn	338.6
Minor Contracts- Trade Services & other works	5111007B	Kenmare Transfer Stn	57,836.24
Non-Capital Equip Purchase - Other	5111007B	Kenmare Transfer Stn	340
Hire (Ext) - Plant/Transport/Machinery & Equipment	5111007B	Kenmare Transfer Stn	124.63
Repairs & Maint - Plant	5111007B	Kenmare Transfer Stn	4,960.35
Repairs & Maint - Other Equip	5111007B	Kenmare Transfer Stn	2,068.20
Transfers from Machinery Yard	5111007B	Kenmare Transfer Stn	9,065.50
Other Vehicle Expenses	5111007B	Kenmare Transfer Stn	85
Materials	5111007B	Kenmare Transfer Stn	453.83
Issues from Stores	5111007B	Kenmare Transfer Stn	8,729.95
Returns to Stores	5111007B	Kenmare Transfer Stn	-249.56
Insurance	5111007B	Kenmare Transfer Stn	136.45
Staff Travelling & Subsistence Expenses	5111007B	Kenmare Transfer Stn	5,384.16
Communication Expenses	5111007B	Kenmare Transfer Stn	1,101.02
Courier	5111007B	Kenmare Transfer Stn	27.85
Security - Property	5111007B	Kenmare Transfer Stn	690.79
Training	5111007B	Kenmare Transfer Stn	322.09
Consultancy/Professional Fees and Expenses	5111007B	Kenmare Transfer Stn	1,348.66
Printing & Office Consumables	5111007B	Kenmare Transfer Stn	507.71
Statutory Contributions to Other Bodies	5111007B	Kenmare Transfer Stn	7,958.00
Energy	5111007B	Kenmare Transfer Stn	2,705.01
			153,196.20

Accelem(T)	Job	Job(T)	EURO
Wages	5020005X	Kenmare Transfer Stn Recycling	13,149.62
Salaries	5020005X	Kenmare Transfer Stn Recycling	2,059.06
ER PRSI	5020005X	Kenmare Transfer Stn Recycling	2,275.69
Overtime	5020005X	Kenmare Transfer Stn Recycling	6,774.71
Arrears	5020005X	Kenmare Transfer Stn Recycling	155.14
Annual Leave	5020005X	Kenmare Transfer Stn Recycling	1,976.61
Travel/Subsistence	5020005X	Kenmare Transfer Stn	2,731.60

		Recycling	
Eating on site allowance	5020005X	Kenmare Transfer Stn Recycling	50.85
Staff Travelling & Subsistence Expenses	5020005X	Kenmare Transfer Stn Recycling	431.73
			29,605.01

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.

John Mannix responsible

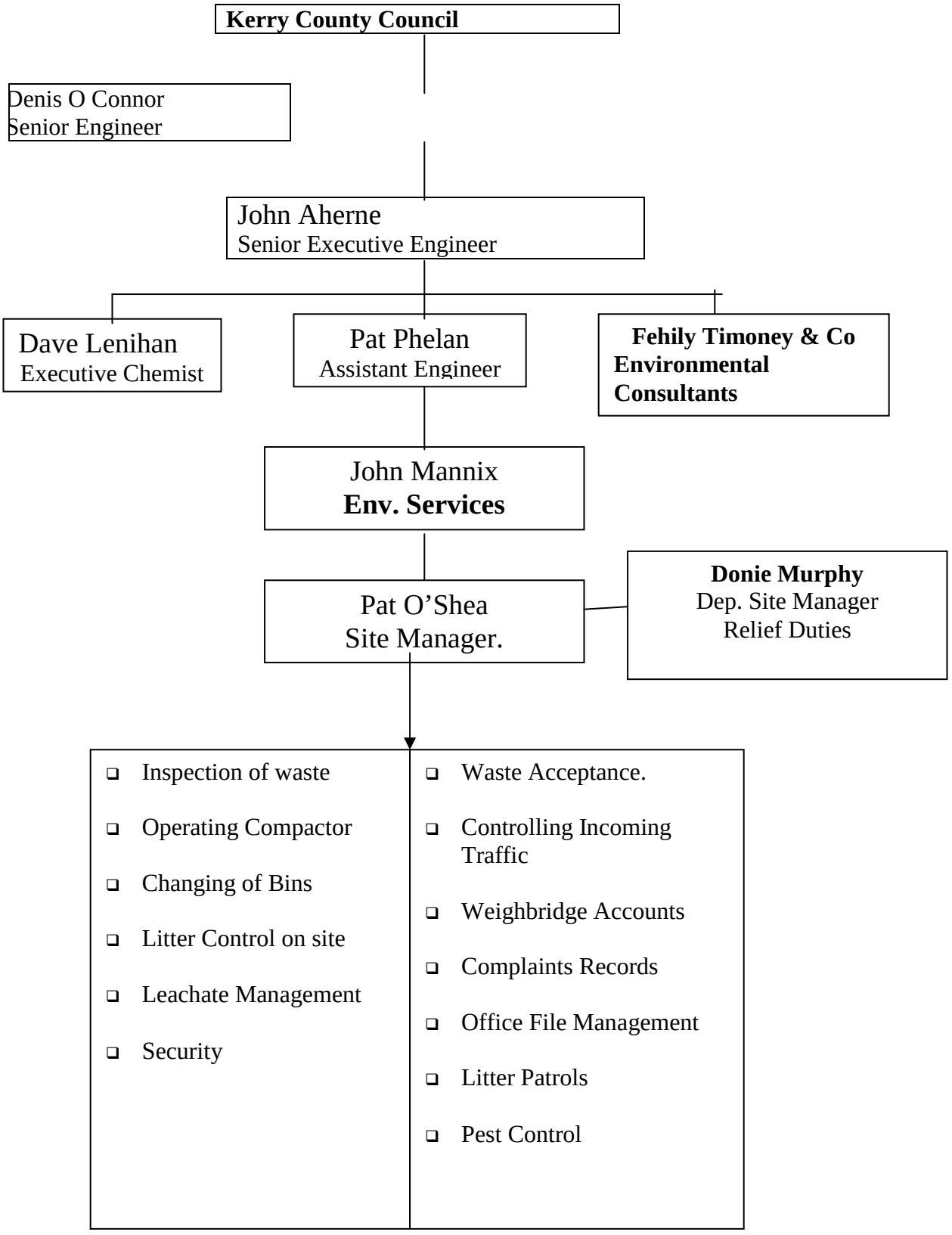
- regular inspection of the facility
- inspection of site records
- ensuring all nuisance control procedures are carried out
- deal with implementation of Litter Control Act.
- Landfill gas monitoring.
- Organising of refuse collection

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.

Relief /Deputy site manager Mr Donie Murphy.
Mr Donie Murphy has carried out relief duties for the site manager or site supervisor since June '00. He has worked as an acting foreman and general operative on a refuse collection truck since 1990. Prior to that he worked in the Council roads section since 1978.
His experience on a refuse truck ensure that he has a good knowledge of the problems associated with dealing with solid waste. 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. 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 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 will be undertaking the FAS Waste Management in 2008. He has direct responsibilities for Waste Management.

Appendix D.

KenmareTransfer Station

Licence Ref. No 86-1

COMMUNICATIONS PROGRAMME

Jan 2009

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	03/08	-

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	03/08	-
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. d) Provision of extra waste streams such as clothes, cardboard and scrap metal.
2. Encourage the public to recycle specifically their WEEE (Waste Electrical and Electronic Equipment).	Increase WEEE collection by 5%.
3. Ensure landfill restoration is proceeding satisfactorily.	Monitor native grass growth during 2009.

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
21/11/07	L1	51.1	27.3	0.9	999	12
10/12/07	L1	56.2	29.4	1.1	997	11
8/01/08	L1	49.3	27.8	1.2	1001	10
6/02/08	L1	54.2	30.1	0.4	1003	13
27/03/08	L1	51.6	28.2	0.7	1000	14
8/04/08	L1	51.8	26.9	0.8	999	16
26/11/08	L1	50.9	27.2	1.4	1008	10

Comments: Results for monitoring were restored to previous typical levels.
Weekly office monitoring results were consistently near zero.

Appendix G. Foul & Surface Water Summary.

Attn: Pat Phelan, EE Waste Management **16 March 2009**
Re: Foul Emission Results for Transfer stations: July to Dec 2008

Enclosed are results (2003 –Date) of monitoring of designated Foul Emission points sampled as set out in EPA licence conditions for following landfill transfer stations: ***Milltown , Coolcaslagh, Kenmare*** and ***Caherciveen.***

The latest results (Nov 2007- Dec 2008) indicate that 1 out of four transfer stations had some exceedances in limits i.e. ***Coolcaslagh***

Coolcaslagh exceeded limits for suspended solids. At present this effluent is been tankered away from site.

Caherciveen, Milltown and ***Kenmare*** foul emissions exhibited no exceedances of limits during this reporting period

David Lenihan MSc
Senior Executive Chemist

Attn: Pat Phelan EE Waste Management **16 March 2009**
Re: Surface water Results for Transfer stations : Jul to Dec 2008

Enclosed are results (2003 – date) of monitoring of designated Surface water points sampled as set out in EPA licence conditions for following landfill transfer stations ***Milltown , Coolcaslagh, Kenmare*** and ***Caherciveen***. The latest results are for July-Dec 2008.

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 villagance and investigation is recommended***

Coolacaslagh

Evidence of significant siltation was noted in drains within landfill i.e. SW3 and SW4 earlier in year. As effluent from transfer station is now tankered away from site it is evident that this contamination is not due to transfer station activity. At present the overwhelming evidence for this siltation pointed to activity upstream of landfill site i.e. excavation works in land adjacent to site. Following remedial works to address siltation problem the situation would appear to have improved from this quarter.

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

Milltown:

Evidence of contamination are still been noted at SW3c and SW4b.
Surface water contamination however in the main would indicate impact from old landfill activities.

David Lenihan MSc
Senior Executive Chemist

Appendix H. Noise Summary.