

ANNUAL ENVIRONMENTAL REPORT.

Milltown Transfer Station.

Licence ref. No 69 – 1.

2008

March 2009

1) **Reporting Period** 01/01/2008 to 31/12/2008

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, aluminium cans, car batteries, dry cell batteries, fluorescent tubes, domestic hazardous waste, cardboard and newspapers.

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

The quantity of municipal solid waste accepted at the facility during the reporting period is divided into two separate periods as follows;

Waste accepted from 01/01/08 to 31/12/08

Waste for Disposal	Tonnages
Municipal waste collected by Local Authority	1302.62
Municipal waste collected by Private Contractors	157.82
Commercial	285.14
Industrial	45.12
Road Sweepings	97.36
Flytipping	73.32
Public Domestic	2268.78
Graveyard Waste	4
Total for Disposal	4234.16

Waste for Recycling & Recovery	Tonnages	Tonnages	Tonnages
	2005	2006	2008
Metals	30.74	31.5	64.58
Glass	47	55.3	71.38
Aluminium	3	2.9	Included
Car Batteries	9	8.5	2.32
Newspapers	156	168.1	166.78
Cardboard	56	70.8	84.08
Flourescent Tubes	0.12	0.14	0.38
Domestic Hazardous Waste	0.2	0.1	0.28
Plastic Bottles	12	12.5	11.32
Waste Engine Oil	1.55	3	1.25
WEEE	127.64	187.97	326.2
Dry Recyclables	443	234.25	123.7
Total for Recycling/Recovery	887	775.06	852.27

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

There has been a drop at the Transfer Station in dry recyclables as these are now being disposed of direct to Killarney Waste Disposal Ltd. However the collection of WEEE continues to improve and this has ensured that our tonnages remain steady. There are plans in 2009 to introduce Scrap metal and cardboard collection which should increase tonnages modestly in 2009. KCC expect a modest increase in 2009 overall.

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

A total of approximately 40 cubic metres of silt/sludge were removed during the reporting period from the silt trap and the foul water treatment unit for subsequent disposal at the Killorglin Wastewater Treatment plant.

6) Foul Water Emmissions

The foul water discharge is monitored on a qualitative basis. Details of the results were sent to the EPA and are on display at the Milltown facility. The Puraflow unit was installed and successfully working since the 23/01/2004.

7) Surface Water Emmissions

Surface water runoff takes place from site roads and uncontaminated surfaces discharge, via silt traps, to the surface water drains.

8) Summary of results and interpretations of Environmental Monitoring.

a) Dust monitoring.

No dust monitoring was carried out during the summer of 2008 as conditions were unsuitable to carry out any meaningful results.

b) Noise monitoring.

The noise report is submitted along with this AER.

c) Monitoring of surface water.

The surface water inspection results show exceedances of environmental limits. Surface water contamination would indicate impact from the old landfill activities and not from the operation of the transfer station.

d) Foul Water

The foul water emissions results are attached for reference. They showed No exceedances of limits as set out in the licence.

e) Landfill gas

Overall the results for methane gas are consistent with previous results from this landfill. Please note that landfill gas is now monitored on a six monthly basis as per the restoration plan agreed with the EPA.

9) Resource Consumption Summary

Diesel

Diesel usage during the period was approximately 2750litres. 65% of this is used by the rubber tyred excavator on site with 35% used by the oil burner in the steam washer. This usage was approximately 10% higher than 2007.

Electricity

Electricity usage at the facility amounted to 26000 units. The main power requirement on site is the hydraulic compactor in the transfer station. Other power requirements include office heating, a portable compactor and public lighting on the site.

Water

Water supply to the site is via a connection to the mains water supply. Water usage on site is mainly for power washing yards, transfer station apron and hopper and washing of trucks where required. While consumption is not metered it is estimated at 250,000lt per annum. No surface water or ground water is abstracted.

10) Development works undertaken during the period and timescale for proposed works.

None were carried out.

11) Schedule of Environmental Objectives and Targets.

The schedule of environmental objectives and targets is attached in Appendix E.

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

1. Recycling tonnages held there own this year with a significant increase in WEEE while dry recyclables were down due to a change in KCCs collection methods.
2. The WEEE collection which showed significant increase due to more increased awareness and their being no charge.
3. The restoration of the old landfill was substantially completed in 2008, there still remains some snagging items to finish.

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

Financial and Health and Safety procedures were significantly revamped during 2008.

14) *Reported Incidents and Complaints Summaries.*

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

15) *Report on financial provisions made under this license, 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 2007.

Appendix B shows gas emissions summary.

Appendix C shows current staffing arrangements.

Appendix D shows the organization chart.

Appendix E shows Environmental Objectives and Targets.

Appendix F shows foul and surface water results.

Appendix G shows noise summary.

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 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	5111003M	Ballyvirrane, Milltown Transfer Stn	31,995.0
Salaries	5111003M	Ballyvirrane, Milltown Transfer Stn	2,058.8
ER PRSI	5111003M	Ballyvirrane, Milltown Transfer Stn	6,807.0
Overtime	5111003M	Ballyvirrane, Milltown Transfer Stn	36,614.8
Arrears	5111003M	Ballyvirrane, Milltown Transfer Stn	948.9
Sick Pay	5111003M	Ballyvirrane, Milltown Transfer Stn	249.2
Annual Leave	5111003M	Ballyvirrane, Milltown Transfer Stn	3,175.1
Bank Holiday Leave	5111003M	Ballyvirrane, Milltown Transfer Stn	274.6
Travel/Subsistence	5111003M	Ballyvirrane, Milltown Transfer Stn	6,648.4
Eating on site allowance	5111003M	Ballyvirrane, Milltown Transfer Stn	322.8
Other Allowances	5111003M	Ballyvirrane, Milltown Transfer Stn	348.5
Minor Contracts- Trade Services & other works	5111003M	Ballyvirrane, Milltown Transfer Stn	90,360.6
Non-Capital Equip Purchase - Computers	5111003M	Ballyvirrane, Milltown Transfer Stn	1,363.2
Non-Capital Equip Purchase - Office Equip/Furn	5111003M	Ballyvirrane, Milltown Transfer Stn	126.0
Non-Capital Equip Purchase - Other	5111003M	Ballyvirrane, Milltown Transfer Stn	766.9
Hire (Ext) - Plant/Transport/Machinery & Equipment	5111003M	Ballyvirrane, Milltown Transfer Stn	5,771.1
Repairs & Maint - Plant	5111003M	Ballyvirrane, Milltown Transfer Stn	1,577.5
Repairs & Maint - Other Equip	5111003M	Ballyvirrane, Milltown Transfer Stn	1,795.8
Transfers from Machinery Yard	5111003M	Ballyvirrane, Milltown Transfer Stn	6,070.0
Other Vehicle Expenses	5111003M	Ballyvirrane, Milltown Transfer Stn	8
Materials	5111003M	Ballyvirrane, Milltown Transfer Stn	2,858.6
Issues from Stores	5111003M	Ballyvirrane, Milltown Transfer Stn	11,505.5
Insurance	5111003M	Ballyvirrane, Milltown Transfer Stn	64.6
Staff Travelling & Subsistence Expenses	5111003M	Ballyvirrane, Milltown Transfer Stn	6,637.7
Communication Expenses	5111003M	Ballyvirrane, Milltown Transfer Stn	2,317.1

Courier	5111003M	Ballyvirrane, Milltown Transfer Stn	1
Security - Property	5111003M	Ballyvirrane, Milltown Transfer Stn	1,240.8
Training	5111003M	Ballyvirrane, Milltown Transfer Stn	995.4
Consultancy/Professional Fees and Expenses	5111003M	Ballyvirrane, Milltown Transfer Stn	1,348.6
Printing & Office Consumables	5111003M	Ballyvirrane, Milltown Transfer Stn	1,544.3
Statutory Contributions to Other Bodies	5111003M	Ballyvirrane, Milltown Transfer Stn	9,188.0
Rent	5111003M	Ballyvirrane, Milltown Transfer Stn	3,301.3
Rates & Other LA Charges	5111003M	Ballyvirrane, Milltown Transfer Stn	48
Energy	5111003M	Ballyvirrane, Milltown Transfer Stn	4,343.6
Refunds	5111003M	Ballyvirrane, Milltown Transfer Stn	19.0
			243,224.2

Accelem(T)	Job	Job(T)	EURO
Wages	5020002X	Ballyvirrane, T/F Station Recycling	19,909.2
Salaries	5020002X	Ballyvirrane, T/F Station Recycling	5,541.8
ER PRSI	5020002X	Ballyvirrane, T/F Station Recycling	4,642.1
Overtime	5020002X	Ballyvirrane, T/F Station Recycling	22,086.9
Arrears	5020002X	Ballyvirrane, T/F Station Recycling	466
Sick Pay	5020002X	Ballyvirrane, T/F Station Recycling	101.5
Annual Leave	5020002X	Ballyvirrane, T/F Station Recycling	523.4
Travel/Subsistence	5020002X	Ballyvirrane, T/F Station Recycling	4,490.0
Non-Capital Equip Purchase - Computers	5020002X	Ballyvirrane, T/F Station Recycling	5,351.9
Staff Travelling & Subsistence Expenses	5020002X	Ballyvirrane, T/F Station Recycling	501
Communication Expenses	5020002X	Ballyvirrane, T/F Station Recycling	177
Training	5020002X	Ballyvirrane, T/F Station Recycling	180.5
			63,972.4

Appendix B. Gas Summary.

Milltown Waste Transfer Station & Civic Amenity Site

Monitoring of Landfill Gas levels

Date	Ref.	CH4 % v/v	CO2 % v/v	O2 % v/v	Atm. Pressure Mbar	Temperature Degrees Celcius
23/11/07	L1	22.7	10.2	6.4	1010	14
	L2	16.1	8.3	7.6	1010	14
13/12/07	L1	24.2	8.7	11.8	1008	9
	L2	18.3	10.2	8.4	1008	9
11/01/08	L1	20.3	10.6	11.2	1011	10
	L2	21.2	8.9	13.6	1011	10
4/02/08	L1	22.6	9.2	6.8	1003	12
	L2	21.6	10.1	8.2	1003	12
12/03/08	L1	18.4	8.7	9.1	1004	13
	L2	18.7	9.8	7.6	1004	13
11/04/08	L1	19.3	6.3	7.2	1011	15
	L2	18.8	10.4	6.4	1011	15

Comments: Both boreholes show consistent and typical results for this old landfill. The results are not inconsistent with previous emissions from this borehole.

Weekly office monitoring results were consistently near zero.

Appendix C MANAGEMENT STRUCTURE

Responsibilities of Personnel

Denis O Connor responsible for

- Overall implementation of Waste Management Plan.
- Development of waste management policy for the county.
- Development of waste management infrastructure.
- Overall implementation of closure plan for old landfill.
- Allocation of responsibilities to staff
- Senior Budget Holder for Environment Section.

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.
- 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

Jerry Murphy responsible for;

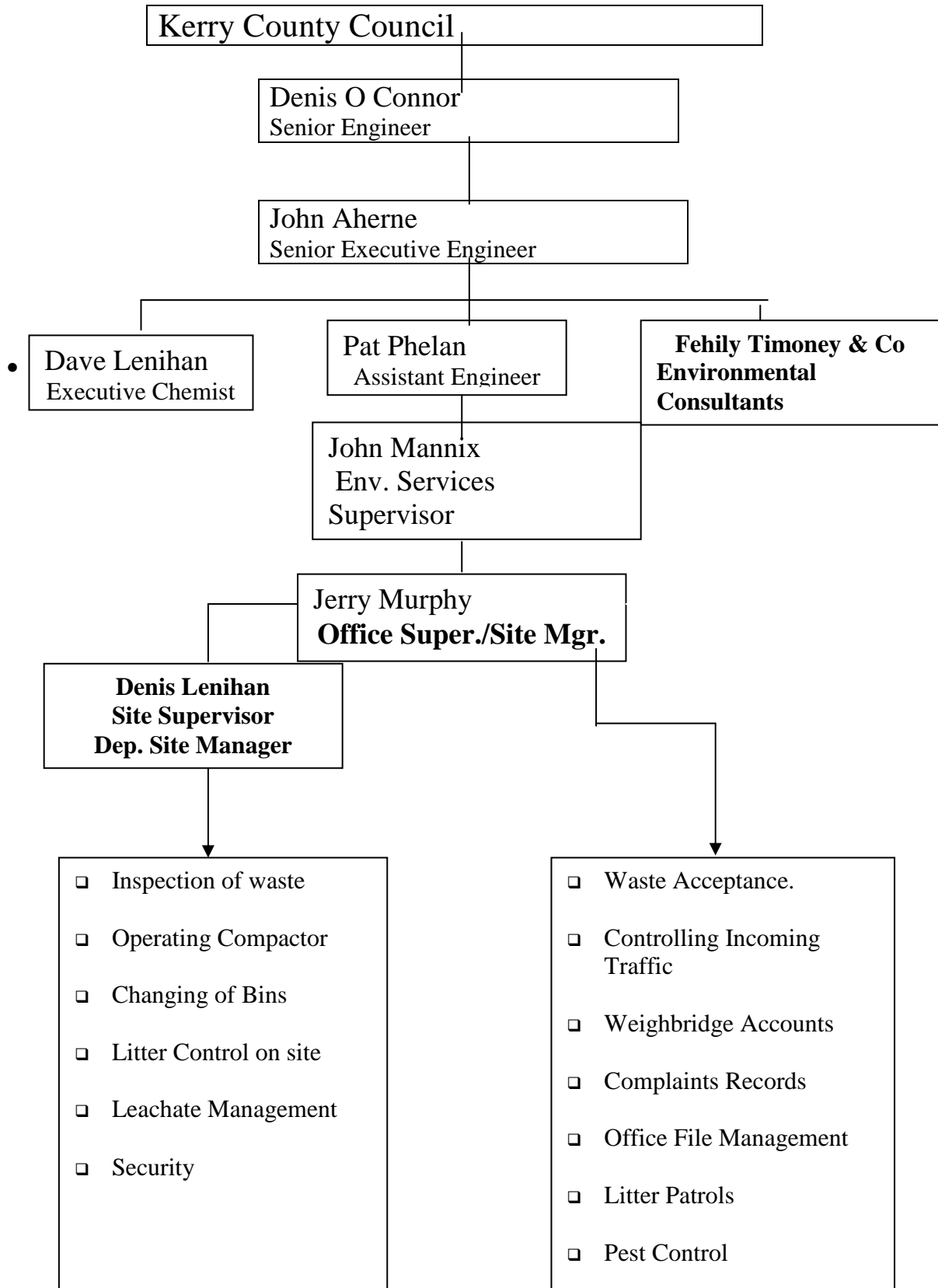
- Office file management
- Weighbridge records
- Implementation of Waste Acceptance procedures at weighbridge.
- Controlling incoming traffic
- Litter patrol
- Weekly inspection for nuisances, inspection of surface water drains and oil interceptors and records of same.
- Complaints records, incident records
- Organising regular removal of waste bins and materials from Civic Amenity area.

Denis Lenihan responsible for;

- Implementation of Waste Acceptance procedures at the hopper.
- Traffic control at tipping area
- operation of compactor
- site cleanliness
- foul water management
- security

**APPENDIX D
ORGANISATION CHART**

Milltown Transfer Station



Kenmare Transfer Station.

Site Manager/Control Room Supervisor Mr.Ger Murphy.

Mr. Ger Murphy is an experienced operative with the council having previously worked on a refuse truck which ensures that he has a excellent knowledge of the problems associated in dealing with solid waste. He has undertaken successfully the FAS waste operative training programme. He has carried out extensive training since he was appointed site manager in 1998 and in particular has successfully completed the FAS waste operative management course.

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. Denis Lenihan.

Mr. Lenihan worked as an experienced excavator driver prior to stating with the council in the North Kerry Landfill at Muingnamuinane, northwest of Tralee. There he gained experience in most aspects of landfill activities before he applied for the position at Milltown WTS.

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 Mr John Aherne
John qualified as a B.E. Civil Engineering in 1995 from UCC. He also has a diploma in Environmental Engineering. He previously has had extensive experience in Roads for Kerry County Council. He will be undergoing the certificate in Waste Management conducted by FAS in 2008/2009.

Appendix E. Environmental Objectives and Targets.

Objective	Target
1. Provide easier egress/access into the	Complete by June 2009.

recycling area of the facility.	
2. Continue to promote kerbside and in-facility recovery and recycling.	Increase tonnage by 5%.
3. Plan expansion of the civic amenity section by completing feasibility studies and preliminary design and costing.	Complete by December 2009
4. Promote & increase WEEE collection.	Increase by 5%.
5. Complete snagging items for restoration plan in 2009.	By June 2009, dependant on weather conditions.

Appendix F. Foul and 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 being 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 G. Noise Summary.