

SOUTH TIPPERARY COUNTY COUNCIL



WALLER'S LOT RECYCLING CENTRE & WASTE TRANSFER STATION ANNUAL ENVIRONMENTAL REPORT

2009

Waste Licence Register No. W0200-01

Prepared by:

South Tipperary County Council
Emmet Street
Clonmel

March 2010

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1. INTRODUCTION

This Annual Environmental Report (AER) is required for submission to the Environmental Protection Agency in accordance with Condition 12.4 of Waste Licence W0200-01 for the Waller's Lot Site. This report presents the all the environmental data and other relevant information regarding the operation of the Waller's Lot Site for 2009

1.1. Scope and Purpose of the Report

South Tipperary County Council holds a waste licence (Register No W0200-01) for the operation of the Waller's Lot Site. The aim of this Annual Environmental Report (AER) is to provide a review of activities at the Waller's Lot Site during 2009.

This is the third AER to be submitted under Condition 12.4 of the licence. The Content of this AER is as defined in Schedule G of the waste licence.

1.2. Site Location

Waller's Lot is located on the edge of Cashel town.

The location of the site is shown on Figure 1.1.

The National Grid Reference for the site is: 208538969 139873395

1.2.1. Site Contacts

Name:	Mr. Pat Walsh
Job Title:	Site Manager
Telephone No:	(062) 64150
Fax No:	(062) 64157

Name:	Mr. Pat O' Dwyer
Job Title:	Deputy Site Manager:
Telephone No:	(052) 34882
Fax No:	(052) 34391

Name:	Ms. Ann Peters
Job Title:	Executive Engineer
Telephone No:	(052) 34397
Fax No:	(052) 34391

1.3. Environmental Policy

South Tipperary County Council is committed to conducting all activities such that they have a minimal effect on the environment.

South Tipperary County Councils main objectives are:

1. To comply with the Waste Licence (Licence Reg. W0200-01) and all relevant environmental legislation
2. To ensure that all facility infrastructure, as required in Condition 3 of the Waste Licence, is established
3. To ensure that all site personnel are familiar with:
 - a. the Conditions of the Waste Licence
 - b. the content of the Environmental Management System
 - c. all operational procedures
4. To reduce the potential for negative environmental impacts by a programme of continuous development on-site and appropriate mitigation measures.
5. To carry out all environmental monitoring, as required by Condition 9 of the Waste Licence.
6. To provide adequate training and awareness to all employees with regard to minimising environmental risks.

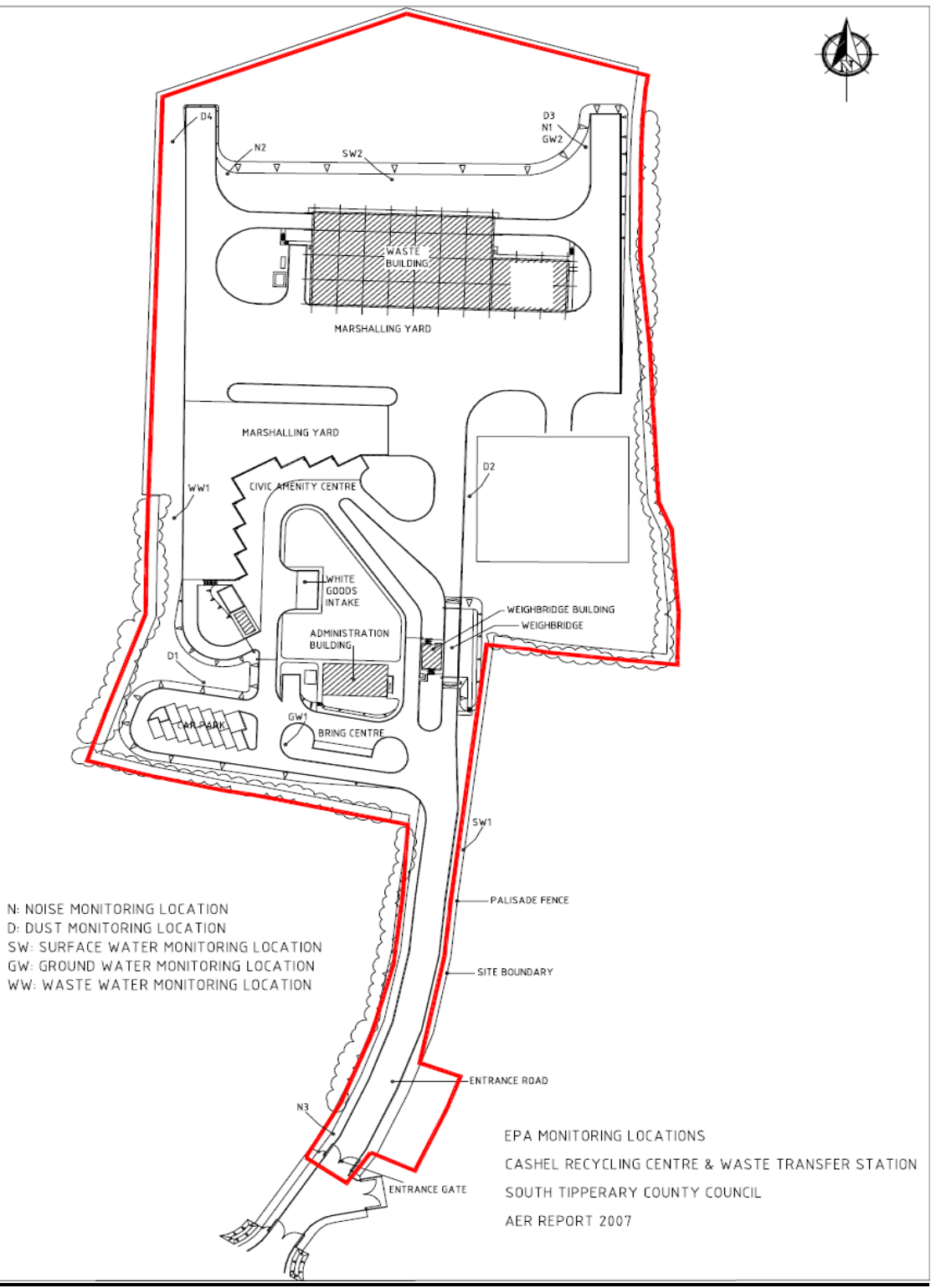


FIGURE 1.1: SITE LOCATION MAP

2 WASTE ACTIVITIES

The licensed waste disposal activities of the facility, in accordance with the Third Schedule of the Waste Management Act 1996 to 2003 are:

- 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.

The licensed waste disposal activities of the facility, in accordance with the Third Schedule of the Waste Management Act 1996 to 2003 are:

- 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 11. Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
- 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 the waste concerned is produced.

The main activity at the site is as a Civic Amenity Centre and as a Waste Transfer Station.

Schedule A of the waste licence outlines the types and volumes of waste that can be accepted at the site. They are shown in Table 2.1 below.

Table 2.1: Licensed Categories and Quantities of Waste for Disposal

Waste Category	Maximum Quantity (Tonnes per annum)
Household and Commercial Waste	21,000
Household Hazardous Waste	100
Total	21,100

2.1 Waste Quantity and Composition

The quantity of waste removed from Waller's Lot in 2009 is outlined in Table 2.2.

Table 2.2: Detailed Quantities of Waste removed from Waller's Lot 2009

Waste Type	EWC Code	Quantity of Waste (Tonnes)
Batteries	16 06 01*	0.42
Cardboard	15 01 01	29.2
C + D	17 09 04	119.12
Cooking Oil	20 01 25	0.14
Aluminium Cans	19 08 14	0.62
Dry Recyclables	20 03 01	2,152.58
Fluorescent tubes	20 01 21	0.26
Glass	20 01 02	29.76
Household Hazardous	20 01 27 / 20 01 37	4.06
Lead Acid Batteries	16 06 01	8.82
Mattresses	20 03 07	14.94
Metal	20 01 40	155.00
Oil Filters	16 01 07	0.14
Tyres	16 01 03	16.64
Household Waste	20 03 01	5,640.62
Newsprint	20 01 01	50.62
Steel Food Cans	15 01 04	3.2
Timber	20 01 37* / 20 01 38	324.56
WEEE	20 01 35* / 20 01 36	145.50
Waste Oil	13 08 99	2.64
Textiles	20 01 10 / 20 01 11	36.62
Plaster Board\Gypsum	17 08 02	27.04
Plate Glass	17 02 02	14.62
Plastic Bottles	15 01 02	0
Farm Plastic	15 01 02	107.30
Gas Cylinders	15 01 11	1.00
	Total	8885.42

3 MONITORING AND EMISSIONS

The monitoring carried out during 2009 is detailed below. All environmental monitoring locations are illustrated in Figure 3.1.

3.1 Dust Monitoring

Condition 9 and Schedule D.2.1 of the licence requires that the licensee conducts the following dust monitoring:

- Three times a year (two of which must occur between May and September) using the Standard Methods VDI2119 at onsite 4 locations.

3.1.1 Dust Monitoring Results

Dust Deposition Monitoring

Dust deposition monitoring was carried out in July, September and November. The results are shown in Table 3.1 below.

Dust Monitoring Point	Emission Limit	Q1 2009	Q2 2009	Q3 2009	Q4 2009	Median
D1 (mg/m ² /day)	350	12	83	74	N/A	74
D2 (mg/m ² /day)	350	31	58	88	N/A	58
D3 (mg/m ² /day)	350	65	74	49	N/A	69.5
D4 (mg/m ² /day)	350	12	83	74	N/a	78.5

Dust levels on site were well below limit value of 350 mg/m²/day at each of the monitoring stations during the monitoring period.

The fourth dust monitoring location was installed in January 2009.

WALLERS LOT WASTE TRANSFER STATION AND CIVIC AMENITY

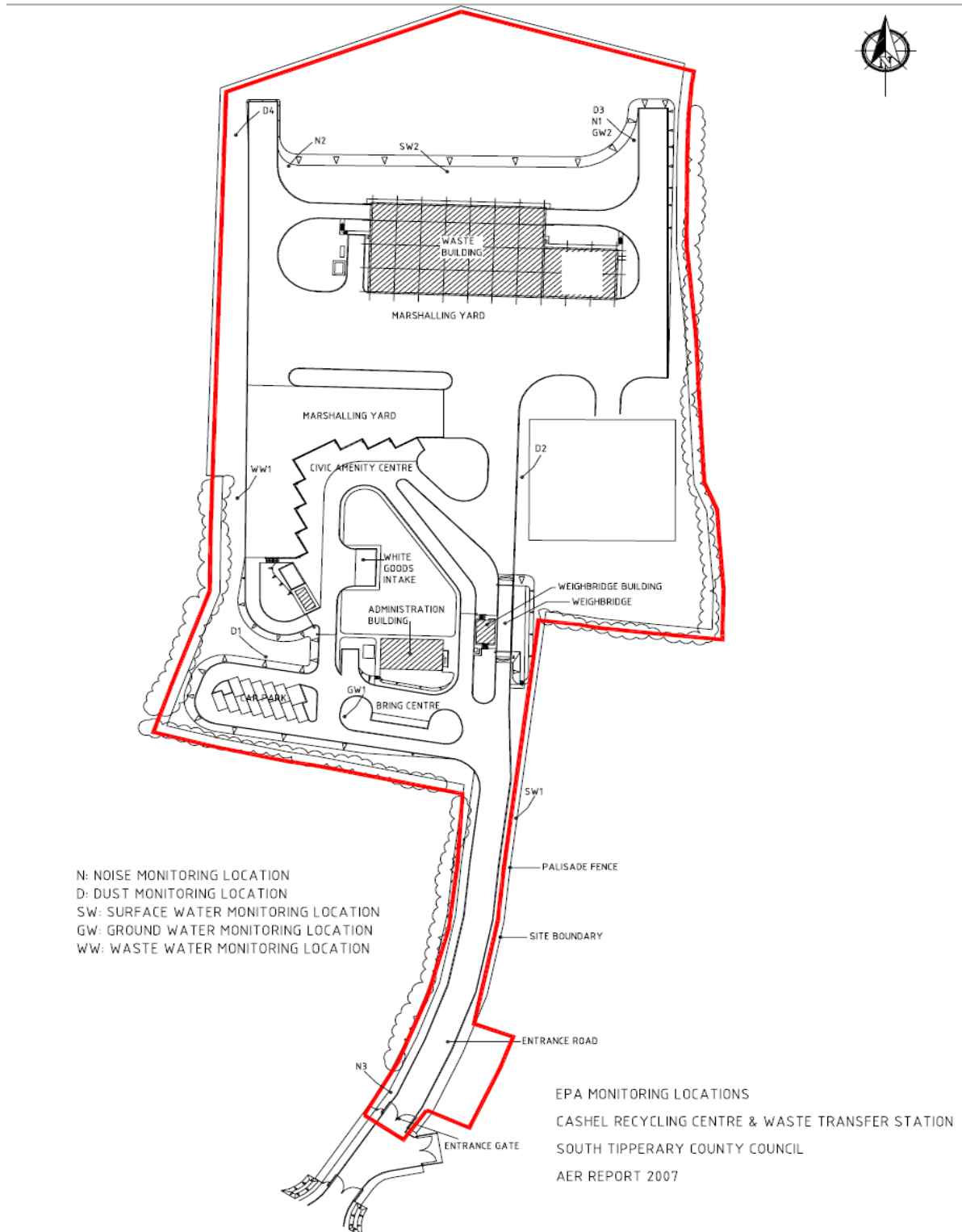


Figure 3.1: Monitoring Locations

3.2 Noise Monitoring

Condition 9 and Schedule D.3.1 of the licence require the licensee to conduct annual monitoring on noise emissions. A full noise survey was carried out on the 16th November 2009. A summary of the results can be seen in Table 3.2 below. A full copy of the results of these tests is included in Appendix 1.

Table 3.2 Noise Monitoring Results Summary

Monitoring Point	L(A)_{EQ}	Comments
N1	51	Main source of noise at this location were produced by reverse beeping sirens, engine noise from plant on site and a lorry unloading waste.
N2	55	Main source of noise at this location were produced by reverse beeping sirens, engine noise vehicles entering and exiting the recycling area an excavator operating in the transfer station loading a trailer. Interferences included birds singing; a helicopter flying overhead and traffic movements on nearby road.
N3	56	Main source of noise was produced by cars and trucks driving to and from the site (3cars + 1 HGV) no noise audible from recycling facility. Interference noise included traffic movements on adjacent road and roundabout.

3.3 Surface water Monitoring

Condition 9 and Schedule D.4 of the licence require the licensee to conduct surface water monitoring at points prior to discharge to soak away at locations to be agreed with the Agency on a quarterly basis. The results can be seen in Table 3.3 and Table 3.4 below. All the results are very low.

Table 3.3 SW1 Surface Water Monitoring Results

Surface Water 1	Emission Limit	Q1 2009	Q2 2009	Q3 2009	Q4 2009	Median
BOD (mg/l)	10	No Discharge	N/A	2.7	4.3	3.5
pH	6.0 – 9.0	N/A	N/A	6.98	7.19	7.085
S.Solids (mg/l)	25	N/A	N/A	13	30	22.67
Mineral Oil (mg/l)	5	N/A	N/A	<10	0.57	0.57

Table 3.4 SW2 Surface Water Monitoring Results

Surface Water 2	Emission Limit	Q1 2009	Q2 2009	Q3 2009	Q4 2009	Median
BOD (mg/l)	10	No Discharge	2.41	4.75	5.02	4.06
pH	6.0 – 9.0	N/A	7.45	7.68	7.03	7.38
S.Solids (mg/l)	25	N/A	4	168	130	100.7
Mineral Oil (mg/l)	5	N/A	<10	<10	0.11	0.11

3.4 Wastewater Monitoring

Condition 9 and Schedule D.5 of the licence require the licensee to conduct waste water monitoring at a point prior to discharge to sewer at a location to be agreed with the Agency on a quarterly basis. The results can be seen in Table 3.5 below.

Table 3.5 Waste Water Monitoring Results

Wastewater	Emission Limit	Q1 2009	Q2 2009	Q3 2009	Q4 2009	Median
pH	6.0 - 10.0	7.73	6.98	7.13	7.14	7.135
Temperature (C)	25	9.1	14	16	Nt	14
BOD (mg/l)	500	8.0	8.7	4.1	21.2	8.35
Suspended Solids (mg/l)	500	10	44	4	25	20.75
Fats, Oils, Grease (mg/l)	100	20	<1	0.3	31	17.1
Ammoniacial Nitrogen (mg/l)	50	13.5	3.5	2.43	9.2	11.35

3.5 Groundwater Monitoring

Condition 9 and Schedule D.6 of the licence require the licensee to conduct groundwater monitoring at two groundwater wells located onsite on a quarterly basis. The results can be seen in Table 3.6 and Table 3.7 below.

Table 3.6 GW1 Groundwater Monitoring Results

Ground Water 1	Emission Limit	Q1 2009	Q2 2009	Q3 2009	Q4 2009	Median
Visual Inspection/Odour	No abnormal	No Odour detected	No Odour Detected	No Odour Detected	No Odour Detected	
Groundwater Level (mts)		5.5	3.8	4.4	Nm	4.4
Conductivity (us/cm)	1500	953	745	751	NT	751
pH	6.0 – 9.0	7.26	6.99	7.23	6.95	7.11
Temperature (C)	25	10.0	11.0	11.2		11
Mineral Oil (mg/l)	5	<50	<10	<10	0.027	0.027

Table 3.7 GW2 Groundwater Monitoring Results

Ground Water 2	Emission Limit	Q1 2009	Q2 2009	Q3 2009	Q4 2009	Median
Visual Inspection/Odour	No abnormal	No Odour detected	No Odour detected	No Odour detected	No Odour detected	
Groundwater Level (mts)		3.4	2.4	2.8	Nm	2.8
Conductivity (us/cm)	1500	689	688	701	Nt	689
pH	6.0 – 9.0	7.29	6.86	7.18	6.87	7.025
Temperature (C)	25	9.9	11.0	11.3	Nt	11
Mineral Oil (mg/l)	5	<50	<10	<10	0.027	0.027

3.6 Tank and pipeline Testing

Bund Tests Table 3.8 and 3.9

Cashel Recycling Centre & Waste Transfer Station

CONCRETE BUND INSPECTION & TEST

**Bund No.1
Waste Oil Bund**

Contractor:	South Tipperary Co.Co.		
Date:	14 th and 15 th January 2010		
Drawing Reference: (incl revision)	2003-024-03-035 Rev 0		
Location:	Civic Amenity Area		
Dimensions:	5.5m x 2.6m x 0.5m deep with 300mm sq sump 300mm deep		
Concrete Mix:	C35N20	Reinforcement:	T8 & T12
Date of Test:	January 2010	Weather:	Dry

1.4. Bund Inspection:

The bund was visually inspected and it was found that there was no sign of damage or deterioration.

The bund was clean and clear of debris.

There were no defects noted at the time of testing.

Bund Test:

The test was carried out in accordance with CIRIA Report 163 Construction of Bunds for Oil Storage Tanks Section 5.5.2.

No drop in water level was noted at the end of the test period, indicating the bund was found to be watertight.

Signed:

Dated:

--

**Anne Peters Executive
Engineer**

15/01/2010

Cashel Recycling Centre & Waste Transfer Station

CONCRETE BUND INSPECTION & TEST

**Bund No.2
Diesel Tank Bund**

Contractor:	South Tipperary Co.Co		
Date:	14 th and 15 th January 2010		
Drawing Reference: (incl revision)	2003-024-03-034 Rev 0		
Location:	Waste Transfer Station Area		
Dimensions:	3.5m x 2.5m x 0.5m deep with 300mm sq sump 300mm deep		
Concrete Mix:	C35N20	Reinforcement:	T8 & T12
Date of Test:	January 2010	Weather:	Dry

1.5. Bund Inspection:

The bund was visually inspected and it was found that there was no sign of damage or deterioration.

The bund was clean and clear of debris.

There were no defects noted at the time of testing.

Bund Test:

The test was carried out in accordance with CIRIA Report 163 Construction of Bunds for Oil Storage Tanks Section 5.5.2.

No drop in water level was noted at the end of the test period, indicating the bund was found to be watertight.

Signed:	-----
Dated:	-- Anne Peters Executive Engineer 15/01/2010

3.7 Resource and Energy Consumption

Electricity and diesel usage are shown in Tables 4.0 and 4.1 below.

Table 4.0 Electricity Use 2009

Date	Consumption in kWh
Mar09	11810
Apr 09	4250
Aug 09	19433
Sept 09	4650
Oct 09	3850
Average p\month	3666

Table 4.1 Diesel Usage 2009

Jan 07	546
Feb 07	780
Mar 07	440
Apr 07	700
May 07	560
June 07	560
July 07	600
Aug 07	340
Sept 07	607
Oct 07	580
Nov 07	600
Dec 07	560
Average p\month	572.75

4 SITE DEVELOPMENT / INFRASTRUCTURAL WORKS

Site development works initiated or completed during the report period are described hereunder.

4.1

It is planned to install a concrete slab to facilitate the bulking up of items in 2010

5 ENVIRONMENTAL INCIDENTS AND COMPLAINTS

5.1 Incidents Summary

Condition 12.3 of the waste licence requires that the licensee shall make written records of environmental incidents. No incidents were recorded during this reporting period

5.2. Complaints Summary

There were no complaints received during the reporting period.

5.3 Review of Nuisance Controls.

All nuisance control systems are monitored weekly to ensure that they are working effectively. The findings of these inspections are recorded on Nuisance Check Sheets, which are held on record in the facility. Environmental nuisances include:

1. Litter
2. Vermin
3. Dust

5.3.1 Litter Control

There are regular checks for litter onsite.

5.3.2 Vermin & Insects Control

The initial vermin control system on site is prompt waste disposal and reducing access to material. Additional vermin control work, is contracted to Pest Patrol (Pest control and Environmental Services). They use bait boxes the following systems to control vermin on site.

Pest Patrol carries out eight to ten site inspections annually to ensure that the site is free of vermin. Waller's Lot is not considered to have a vermin problem. The findings of these inspections are recorded and are held on record in the facility.

5.3.3 Dust Control

Dust control on-site is controlled using the following systems:

1. Reduced vehicle speed on site to control dust rising
2. Roads sprayed with water to keep dust down, done in dry weather

No complaints were received at the as regards dust raised by operational activities.

6 ENVIRONMENTAL MANAGEMENT SYSTEM

6.1 SUMMARY OF PROCEDURES ASSOCIATED WITH THE FACILITY

Documented procedures governing the operation of the facility are outlined below. Complete copies of all procedures are included in the facility's EMS.

Procedure Title Summary	Emergency Response Procedure The purpose of this procedure is to propose appropriate actions to ensure the safety & health of all site personnel and visitors, minimise damage to property and risk to the environment This procedure describes the action to be used in the event of an emergency where an emergency can be described as but is not limited to any of the following incidences: <ul style="list-style-type: none">• significant spillage• major fire/explosion• flooding / structural damage• major injury or dangerous occurrence
Revision Date & No.	November 2007 Rev. 2
Procedure Title Summary	Corrective Action Procedure To ensure that the appropriate corrective action is taken in the event of an incident on-site, where an incident can be defined as: <ul style="list-style-type: none">• an emergency• any emission which does not comply with the requirements of this licence (W0200-01)• any trigger level specified in this licence which is attained or exceeded• any indication that environmental pollution has, or may have, taken place
Revision Date & No.	February 2007 Rev. 1
Procedure Title Summary	Awareness and Training Procedure To ensure that training needs are identified and appropriate training is provided for facility personnel.
Revision Date & No.	February 2007 Rev. 1
Procedure Title Summary	On-Site Communication Procedure To ensure that members of the public can access, at the facility, information on the sites environmental performance, in compliance with Condition 2.4 of the waste licence
Revision Date & No.	February 2007 Rev. 1
Procedure Title Summary	External Communication Procedure To ensure that all communications regarding the facility are correctly directed to be addressed by the correct personnel.
Revision Date & No.	July 2007 Rev. 2

Procedure Title **Complaints Procedure**
Summary To ensure that all complaints that activities are creating a nuisance are recorded and dealt with, in compliance with Condition 11.4 of the waste licence
Revision Date & No. February 2007 Rev. 1

Procedure Title **Waste Characterisation and Testing Procedure**
Summary To provide a system of checking to ensure that waste collected at Waller's Lot complies with Schedule A of the Waste Licence.
Revision Date & No. February 2007 Rev. 1

Procedure Title **Waste Acceptance Procedure**
Summary To formalise the system of receiving and recording the delivery and acceptance of waste.
Revision Date & No. November 2007 Rev. 2

Procedure Title **Vehicle Movement Procedure**
Summary Ensure that all vehicles using the site enter, travel and operate safely
Revision Date & No. November 2007 Rev. 2

Procedure Title **Waste Quarantine Procedure**
Summary To ensure that quarantine waste is stored and processed correctly
Revision Date & No. February 2007 Rev. 1

Procedure Title **Waste Rejection Procedure**
Summary To ensure that rejected waste is dealt with in a safe manner and that the appropriate notification is made
Revision Date & No. February 2007 Rev. 1

Procedure Title **Metal Recovery – Waste Acceptance Procedure**
Summary To formalise the system of receiving, recording the delivery and acceptance of waste metal for recovery at Waller's Lot.
Revision Date & No. February 2007 Rev. 1

Procedure Title **WEEE Acceptance (incl Fridges and freezers) Procedure**
Summary To formalise the system of receiving, recording the delivery and acceptance of white goods for recovery at Waller's Lot.
Revision Date & No. November 2007 Rev. 2

Procedure Title **Recyclable Waste - Acceptance Procedure**
Summary To formalise the system of receiving, recording the delivery and acceptance of recyclable materials for recovery at Waller's Lot.
Revision Date & No. February 2007 Rev. 1

Procedure Title **Environmental Monitoring Procedure**
Summary To formalise the system of environmental monitoring on-site for:

- Surfacewater
- Groundwater
- Wastewater
- Dust

Revision Date & No. • Noise
November 2007 Rev.2

Procedure Title **Site Inspection Procedure**
Summary To ensure that the site is inspected on a weekly basis to ensure that there
is nothing of note occurring on site that is being missed.
Revision Date & No. February 2007 Rev. 1

Procedure Title **Nuisance Inspection Procedure**
Summary To ensure that the site is inspected on a weekly basis to ensure that there
is no nuisance being caused by dust, litter and odours.
Revision Date & No. February 2007 Rev. 1

Procedure Title **Self Compacting Trailer Operating Procedure**
Summary To ensure the safe operation of the waste compacting trailer
Revision Date & No. January 2009 Rev. 1

Procedure Title **Waste Conveyor Operation Procedure**
Summary To ensure the safe operation of the waste conveyor
Revision Date & No. January 2009 Rev. 1

6.2 OBJECTIVES AND TARTGETS

Objective 1	Continue Advertising campaign	
Target	I	
	Tasks	Timeframe
	1. Advertise facilities in local paper.Ongoing	March 2011
Responsibility	Facility manager & PAO	
Resources\Comments		

Objective 2	Review all aspects of Health and Safety in relation to the facility	
Target	To carry out a review in relation to all aspects of health and safety concerning this facility	
	Tasks	Timeframe
	1. Review Site specific safety statement	July 2010
	2. Carry out any recommendations for reduction of risk outlined in Safety Statement.	July 2010
Responsibility	Facility manager & RE	
Resources\Comments		

Objective 3	Improve energy efficiency on site	
Target	In compliance with Condition 8.1 STCC will carry out an audit of the energy efficiency of the site to identify opportunities for energy use reduction and better resource use.	
	Tasks	Timeframe
	1. Carry out energy audit in accordance with guidance published by the Agency – ‘Guidance note on energy efficiency auditing’.	March 2011
	2. Implement audit findings and review. Ongoing	January 2011
Responsibility	Facility manager & E.E	
Resources\Comments	Audit Completed	

Objective 4	Improve site security	
Target		
	Tasks	Timeframe
	1. Maintain fence	Ongoing
	2. Reduce scavengers / trespassers	
Responsibility	Facility manager	
Resources\Comments	Worked with local Gardai / New Security cameras fitted	

Objective 5	Implementation of a management and reporting system	
Target	In compliance with Condition 2.4 STCC will maintain a system whereby all environmental information is available to members of the public during opening hours	
	Tasks	Timeframe
	1. Review and update the EMS 2009	March 2010
	2. Review and update the schedule of objectives and targets 2010	March 2010
	3. Implement reviewed EMP	
	4. Review and update the Corrective Action Procedure	March 2010
	5. Review and update the Awareness and Training Programme See Chapter 6	
	6. Prepare an AER	March 2010
Responsibility	Facility Manager	
Resources\Comments	Completed	

Objective 6	Expand the range of products accepted for recycling	
Target	Expand the range of products accepted	
	Tasks	Timeframe
	1. Investigate other materials	Ongoing
	2. Hard Plastics	December 2010
Responsibility	Facility Manager	
Resources\Comments		

Objective 7	Site Inspections	
Target	To ensure that all appropriate site inspections are carried out and documented as per the Licence requirements	
	Tasks	Timeframe
	1. Training of Staff in Inspection procedures	Ongoing
	2. Maintaining Inspection records	Ongoing
Responsibility	Facility manager	
Resources\Comments	Ongoing	

Objective 8	Staff Training	
Target	To ensure that all site personnel are appropriately qualified for the position they hold on site.	
	Tasks	Timeframe
	1. Implement regular in-house training for on-site personnel including First Aid and Spill Kit Training	Ongoing
Responsibility	Facility manager	
Resources\Comments	Ongoing	

Objective 9	Environmental Education	
Target	To encourage all interested parties to visit the site and learn about recycling	
	Tasks	Timeframe
	1. Use building to run courses regarding all forms of recycling	Ongoing
	2. Encourage school visits	Ongoing
Responsibility	Facility manager, Environmental Engineer, Public Awareness Officer.	
Resources\Comments	Ongoing	

Objective 10	Reduction in Resource usage	
Target	To reduce usage of water and power on site	
	Tasks	Timeframe
	1. Carry out Energy audit	March 2011
	2. Implement recommendations of energy audit	Ongoing
Responsibility	Facility manager	
Resources\Comments	Regular monitoring of site water meter .	

Objective 11	Site Development	
Target	To Increase the Size and Scope of the Site.	
	Tasks	Timeframe
	1. To Fully concrete bulking area install new loading bays and build a warehouse for housing all WEE products.	March 2012
Responsibility	Facility manager\Site Engineer	
Resources\Comments		

7 FACILITY REOURCES

7.1 Management and Staff Structure

There are six operational staff at the site: a Facility Manager, responsible for the day-to-day site activities, a deputy manager, environmental chemist, a weighbridge operator and two general operatives.

A staffing structure for site operations is presented in Figure 7.1. Their qualifications and responsibilities are outlined below:

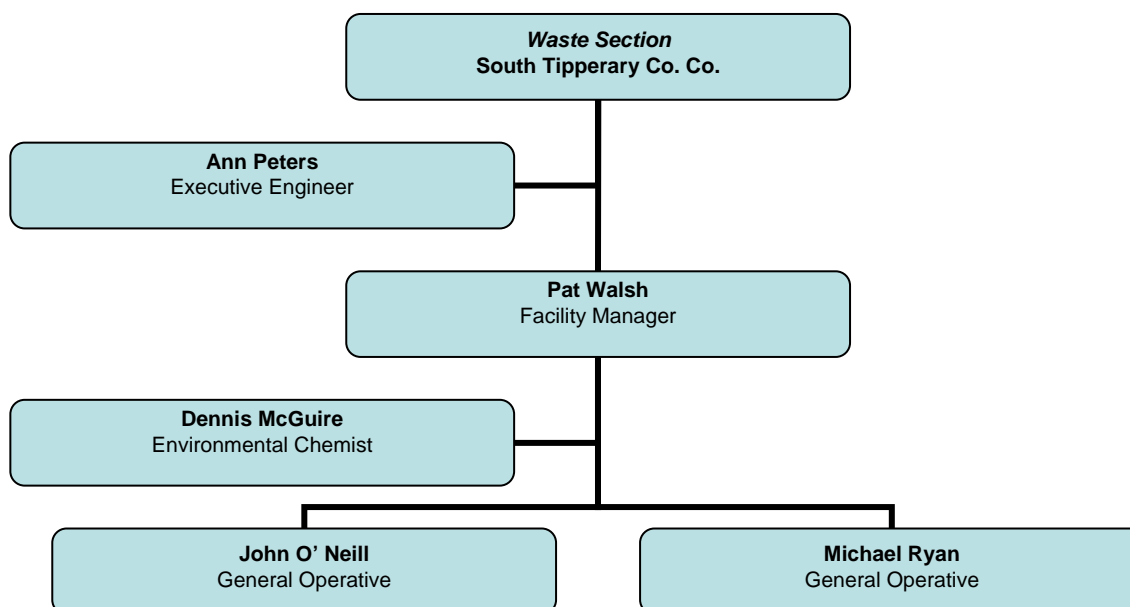


Figure 7.1: Management Structure

Facility Manager:	<i>Pat Walsh</i>
Qualifications:	FAS Waste Management Training Course FAS SafePass Course
Responsibilities:	Day-to-Day Operations Waste Acceptance Environmental Protection

Executive Engineer:	<i>Anne Peters</i>
Qualifications:	B.E. (Chem.) FAS Waste Management Training Course FAS SafePass Course
Responsibilities:	Oversee infrastructure development and management on site

Deputy Manager:	<i>Dennis McGuire</i>
Qualifications:	B.Sc.
Responsibilities:	Responsible for analytical analysis of monitoring on site

Deputy Manager:	<i>Pat O' Dwyer</i>
Qualifications:	FAS Waste Management Training Course FAS SafePass Course
Responsibilities:	Deputy for the Facility Manager, has the same responsibilities <ul style="list-style-type: none"> • Day-to-day operations • Waste acceptance • Environmental protection

General Operators	John O' Neill and Michael Ryan
Qualifications:	FAS Waste Management Training Course In -house Training <ul style="list-style-type: none"> • Weighbridge operation • Telescopic handler • Safe Pass • Manual handling • Instruction on the implication of the waste licence on site staff
Responsibilities:	Weighing Waste Acceptance Records Cash Duty General house keeping

Staff will be present on site during operational hours to supervise the waste disposal, deal with any emergency that arises and to prevent unauthorised entry into the site. The Facility Manager, or appointed deputy, must be on site during opening hours.

The primary goal of all training is to ensure that there is awareness at all levels of:

- the importance of compliance with conditions of the licence
- the potential environmental effects of work activities
- individual roles and responsibilities in achieving compliance with the waste licence
- the environmental benefits of improved performance
- the Health, Safety & Welfare at Work Act.

7.1.1 Training of Personnel

It will be the responsibility of the Manager to ensure that all staff receives training in relevant areas/tasks, including:

- instruction and operation of the machinery
- operation of the weighbridge and computer system
- training for specific functions

The Manager shall also ensure that all staff receives general training, including:

- instruction in manual handling
- the use of fire extinguishers
- FAS SafePass Course
- First Aid training

It is also the responsibility of the Manager to ensure that site staff are aware of the terms of the waste licence at the facility and the responsibility of each staff member to maintain specific terms of the waste licence. It is the responsibility of the facility manager to ensure that each staff member is aware of his or her specific function.

The Health and Safety Officer makes regular visits to the site, to promote awareness of safety issues and to audit the site. Any suggested improvements are implemented as soon as possible.

7.1.2 Records for the Training and Awareness Programme

- A training records file is kept at the site office
- All relevant operational procedures and documentation relevant to the licence shall be kept at the facility office and updated regularly
- All staff shall be made aware of the existence of such documents.

7.2 Financial Provisions

The county council have the funds available to them to complete the aftercare and restoration of the site in the event of the site closure.

The aftercare and restoration plan was submitted to the Agency in attachment G.1 of the Waste Licence application.

Appendix 1 Noise Monitoring Results

South Tipperary County Council
Cashel Civic Amenity and Waste Transfer Station
Waller's Lot, Cashel, County Tipperary

Annual Environmental Noise Survey

Report Date:

16th November 2009

EURO environmental services

Unit 35A, Boyne Business Park, Drogheda, Co Louth

Report No. 4190/M06

1.0 Introduction

EURO environmental services were commissioned by Louise Ryan of South Tipperary County Council to conduct an environmental noise survey at the Cashel Civic Amenity and Waste Transfer Station, Waller's Lot, Cashel, Co. Tipperary. The noise survey was carried out on three pre-determined perimeter-monitoring points on the 29th October 2009 by Victor Olmos of EURO environmental services as per requirement of Schedule D.3 of Waste Licence No. W0200-01.

2.0 Duration and Measurements of Surveying

The survey was carried out between 9:28 to 11:05 on Thursday the 29th of October 2009. The following measurements were carried out at each site:

- Daytime Broadband measurements $L(A)_{eq}$, $L(A)_{10}$, $L(A)_{90}$, $L(A)_{50}$, $L(A)_1$ and $L(A)_{99}$ over a 30 minute period.
- Daytime 1/3 Octave Band measurements over a 30 minute period in the range 25Hz to 16kHz.

3.0 Weather Conditions

Weather conditions were overcast and calm with a slight breeze. Temperatures ranged between 13-14 °C during the monitoring.

4.0 Location of Monitoring Points

N1 was located on hard ground along the north eastern corner of the site; 30 metres away from waste building and 1 metre away from boundary fence.

N2 was located on hard ground along the north western corner of the site; 35 metres away from waste building and 2 metres away from boundary fence.

N3 was located on hard ground at the entrance to the site, adjacent to residential dwelling and approximately 25m from the main Cashel Road and 40m from to closest neighbour's house.

5.0 Activities on Site

Activities on site continued as normal during the daytime survey. Vehicles entered and left the site, waste being unloaded in the recycling area and compactor lorry being loaded.

6.0 Methodology

The noise survey was carried out in accordance with ISO 1996/1/2/3 – Acoustics – Description and Measurement of Environmental Noise and The Environmental Noise Survey Guidance Document issued by the EPA.

Reference was also made to the guidance note issued by the Environmental Protection Agency for the assessment of noise from licensed facilities.

7.0 Equipment

The equipment used was a Bruel & Kjaer 2250 serial No. 2463166 integrating sound pressure meter, with selective 1:1 or 1:3 octave band measurements.

The meter was fixed to a tripod 1.3 meters above ground level and the microphone was protected using a windshield. The microphone cartridge type was BK4189, serial number 2457949 with open circuit sensitivity level of 53.2 mV per Pa.

8.0 Calibration

Calibration was carried out on site using an acoustic calibrator at 94dBA. The meter was calibrated before and after the monitoring round.

9.0 Day Time Measurements

Monitoring Point	Location	Date/ Time	Sampling Interval minutes	L(A)eq	L(A) ₁₀	L(A) ₉₀	Comments
N1	North eastern corner	29/10/2009 10:02	30	51	53	47	Main sources of noise at this location were produced by reverse beeping sirens, engine noise from plant on site and a lorry unloading waste. Interference noise included birds singing and traffic movements on nearby road.
N2	North western corner	29/10/2009 9:28	30	55	58	51	Main noise sources at this location were produced by reverse beeping sirens, engine noise, vehicles entering and exiting the recycling area, an excavator in operation within the waste building loading a compactor trailer. Interferences included birds singing; a helicopter flying overhead and traffic movements on nearby road.
N3	At entrance to site, adjacent to residential dwelling and main Cashel Rd.	29/10/2009 10:35	30	56	58	51	Main source of noise was produced by vehicles entering and exiting site (3 cars + 1 HGV). No noise audible from recycling facility. Interference noise included traffic movements on adjacent road and roundabout.

10.0 Third Octave Noise Measurements

Third octave noise monitoring results are attached in the Appendix and are used to identify prominent tonal components in noise. Tonal noise components were detected at monitoring location N1 at frequency of 25Hz (67.8 dB). This tonal noise component may be attributable to plant operating in close vicinity to this monitoring location.

11.0 Interference

Traffic had an influence on monitoring location N3 which was located close to the main Cashel Rd and the N8. 72 Cars and 11 HGV's passed while the monitoring was being conducted at monitoring location N3.

12.0 Summary and Conclusions

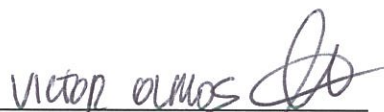
Noise levels were determined at three monitoring points around the Cashel Civic Amenity and Waste Transfer site. The EPA recommend a day time noise limit of 55 dB(A).

Monitoring location N3 was above the 55 dB(A) limit, with reading of 56 dB(A). Elevated noise levels at this location are due to frequent traffic movements in the vicinity of this monitoring location.

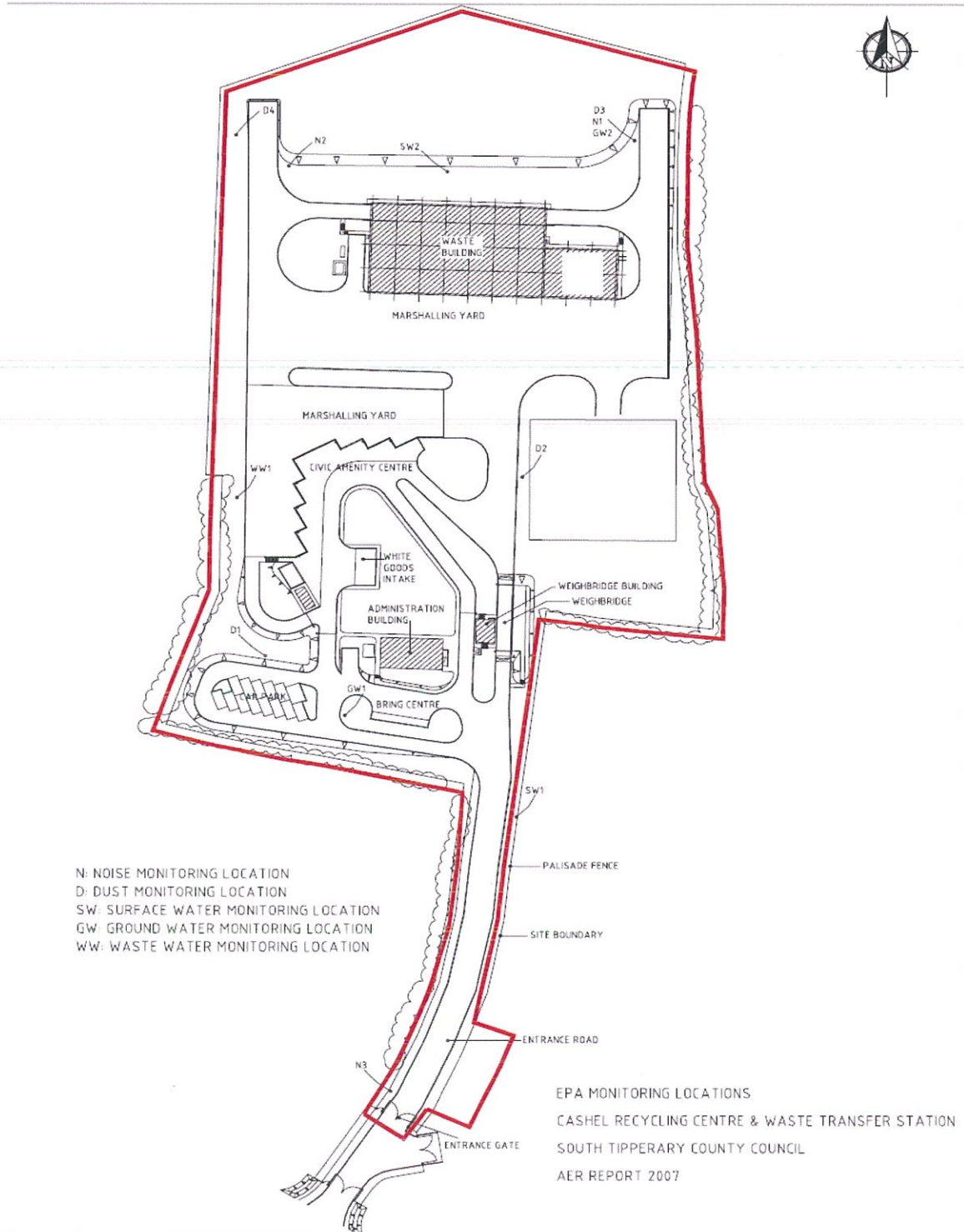


Aadil Khan
Environmental Technical Manager

16th November 2009



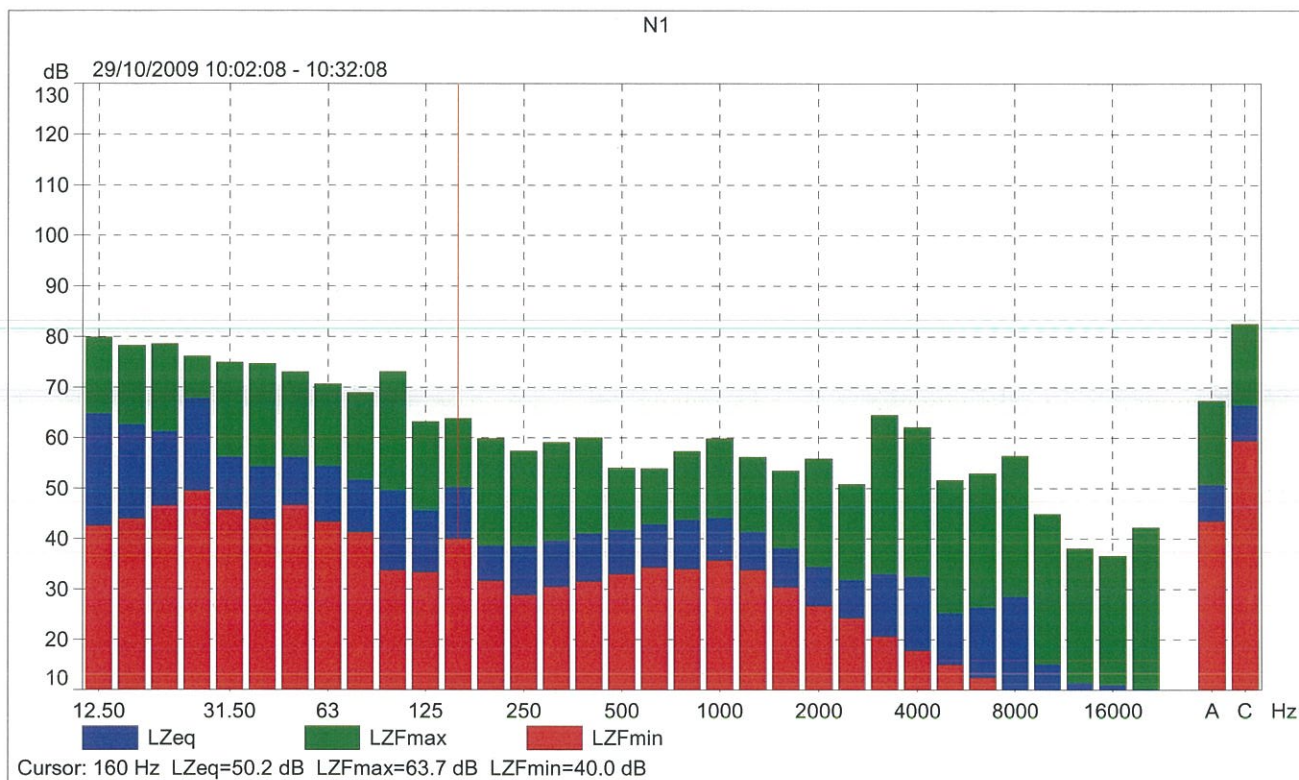
Victor Olmos
Environmental Technician



Appendix 1: Broadband and 1/3 Octave Monitoring Data

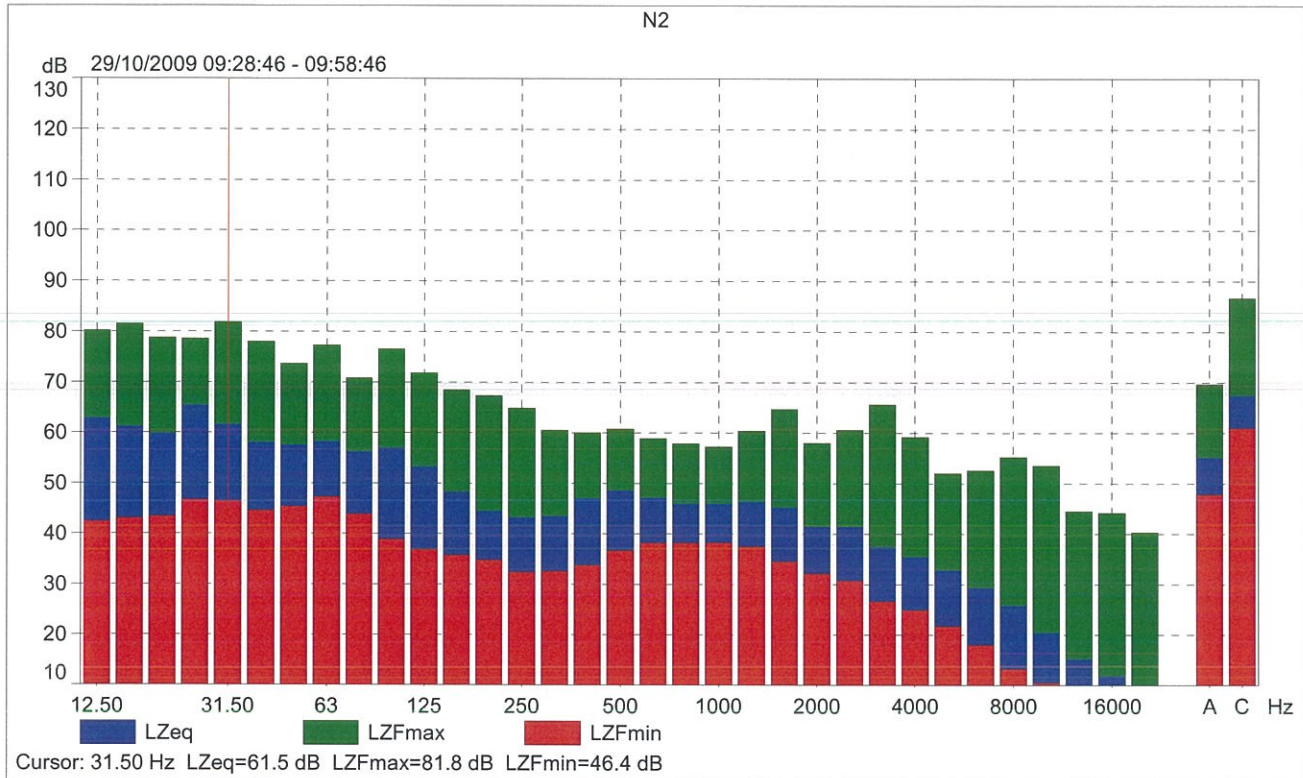
N1

	Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAF10 [dB]	LAF90 [dB]	LCpeak [dB]
Value			0.00	67.3	43.5	50.7	52.9	47.3	90.9
Time	10:02:08	10:32:08							10:09:29
Date	29/10/2009	29/10/2009							29/10/2009



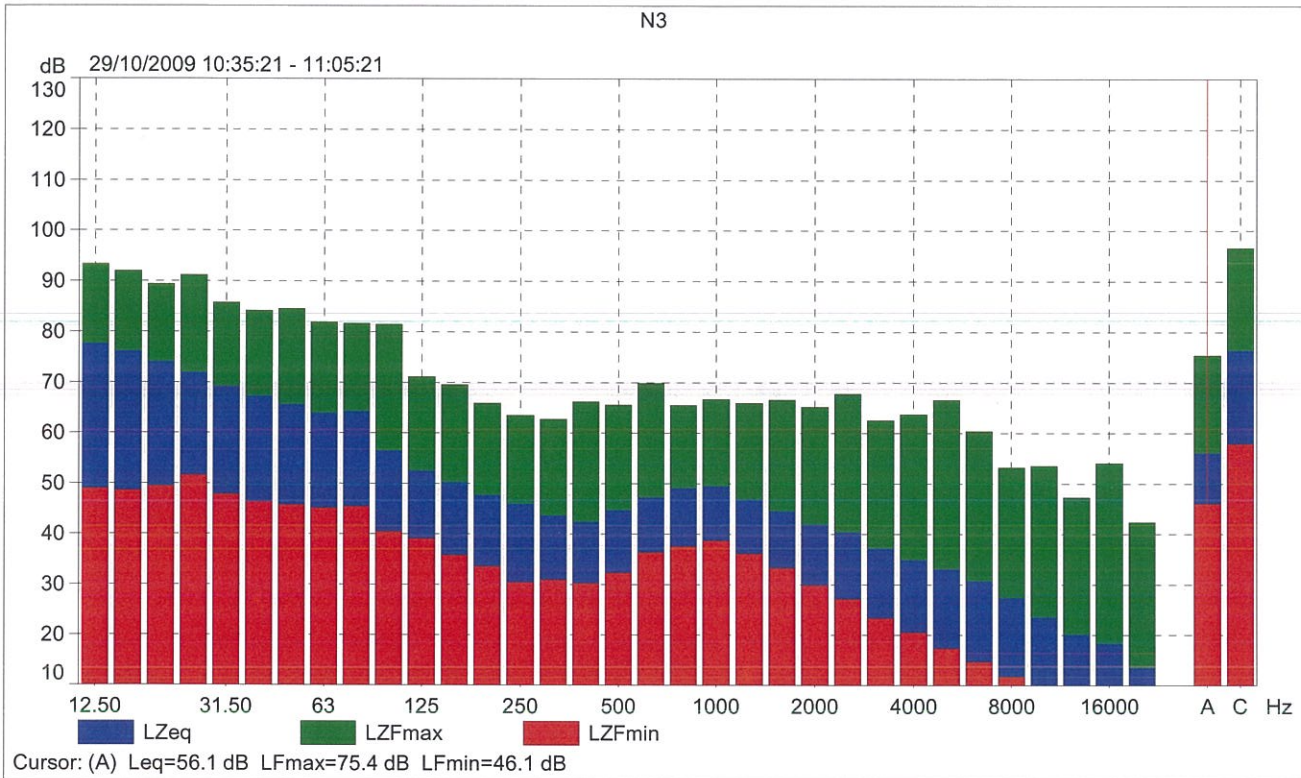
N2

	Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAF10 [dB]	LAF90 [dB]	LCpeak [dB]
Value			0.00	69.7	47.8	55.1	57.5	50.8	97.8
Time	09:28:46	09:58:46							09:33:36
Date	29/10/2009	29/10/2009							29/10/2009



N3

	Start time	End time	Overload [%]	LAFmax [dB]	LAFmin [dB]	LAeq [dB]	LAF10 [dB]	LAF90 [dB]	LCpeak [dB]
Value			0.00	75.4	46.1	56.1	57.8	51.1	104.3
Time	10:35:21	11:05:21							10:43:12
Date	29/10/2009	29/10/2009							29/10/2009



Appendix 2 Electronic AER



AER Returns Worksheet

REFERENCE YEAR: 2009

1. FACILITY IDENTIFICATION

Facility Name	South Tipperary County Council
PRTR Facility Name	Recycling Centre and Waste Transfer Station
PRTR Identification Number	W0200
EPA Facility Number	W0200-01

Waste or PRTR Classes of Activity

3.12 Recycling prior to admission to any activity referred to in a preceding paragraph of this Schedule.

3.13 Storage prior to admission 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.

4.11 Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.

4.13 Storage of waste intended for admission 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	Wexford S.I. Rd
Address 2	Co. Tipperary
Address 3	
Address 4	
Country	Ireland
Coordinates of Location	7.8746 52.5126
River Basin District	ESSE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Aine Treacy (W/076)
AER Returns Contact Email Address	aine.treacy@stnfrtyppo.co.ie
AER Returns Contact Telephone	Executive Engineer
AER Returns Contact Telephone Number	002 34381
AER Returns Contact Fax Number	
Production Volume	180
Production Volume Unit	t
Number of Operating Days	1
Number of Operating Hours	2200
Number of Employees	5
User Facility of PRTR	Yes
Web Address	http://www.stnfrtyppo.co.ie

2. PRTR CLASS ACTIVITIES

Activity Number	50.1	Activity Name	General
50.1		General	

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

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

Transfer Description	European Waste Code	Inventory	Quantity (Cubic Meters)	Description of Waste	Volume	Material Type	Material Code	Location of Treatment	EU Waste No. 2002/96/EC (Annex II)	EU Waste No. 2002/96/EC (Annex III)	EU Waste No. 2002/96/EC (Annex IV)	EU Waste No. 2002/96/EC (Annex V)
Within the Country	20 03 01	No	324.02	Household waste	D1	M	W0302	Options in Ireland	Disposal Unit 1007/403			
Within the Country	20 03 01	No	2182.58	Dry vegetation	R3	M	W0303	Options in Ireland	Disposal Unit 1007/403			
To Other Countries	16 08 01	Yes	9.24	Batteries	R5	M	W0304	Abroad	EMW1018/01			
Within the Country	15 01 01	No	29.2	Cardboard	R3	M	W0304	Options in Ireland	Disposal Unit 1008/02			
Within the Country	17 09 04	No	119.3	C.R.D.	R5	M	W0304	Options in Ireland	Disposal Unit 1008/02			
Within the Country	16 03 14	No	0.63	Automated cars	R4	M	W0304	Options in Ireland	Disposal Unit 1004/04			
Within the Country	20 01 21	Yes	0.28	Fluorescent tubes	R5	M	W0304	Options in Ireland	EMW1013/04			
Within the Country	20 01 02	No	29.79	Glass	R5	M	W0304	Options in Ireland	Disposal Unit 1004/04			
To Other Countries	20 01 27	Yes	4.89	Print / Household hazardous waste	R3	M	W0304	Abroad	EMW1018/01			
Within the Country	20 03 07	No	14.64	Batteries	R5	M	W0304	Options in Ireland	EMW1004/02			
Within the Country	20 01 40	No	156.0	Scrap metal	R4	M	W0304	Options in Ireland	EMW1004/02			
Within the Country	16 01 07	Yes	0.14	Oil Filters	R3	M	W0304	Options in Ireland	EMW1004/01			
Within the Country	16 01 03	No	16.64	Tires	R3	M	W0304	Options in Ireland	Disposal Unit 1007/403			
Within the Country	20 01 01	No	50.85	Household appliances	R3	M	W0304	Options in Ireland	Disposal Unit 1008/02			
Within the Country	15 01 04	No	3.2	Small boat case	R4	M	W0304	Options in Ireland	Disposal Unit 1004/04			
Within the Country	20 01 38	No	324.58	Truck	R3	M	W0304	Options in Ireland	Disposal Unit 1007/403			
Within the Country	20 01 35	Yes	14.5	WEEE	R4	M	W0304	Options in Ireland	EMW1013/04			
Within the Country	15 06 99	Yes	2.84	Waste Oil	R3	M	W0304	Options in Ireland	EMW1018/01			
To Other Countries	20 01 11	No	36.02	Trashes	R3	M	W0304	Abroad	Disposal Unit 1007/403			
Within the Country	17 08 02	No	27.04	Foodstuffs	R5	M	W0304	Options in Ireland	Disposal Unit 1008/02			
Within the Country	17 02 02	No	14.02	Fruit skins	R3	M	W0304	Options in Ireland	Disposal Unit 1008/02			
Within the Country	15 01 02	No	1.32	Plastic bottles	R3	M	W0304	Options in Ireland	Disposal Unit 1008/02			
Within the Country	15 01 02	No	107.3	Fruit peels	R3	M	W0304	Options in Ireland	Disposal Unit 1008/02			
Within the Country	15 01 04	No	1.0	Cardboard	R4	M	W0304	Options in Ireland	Disposal Unit 1004/04			