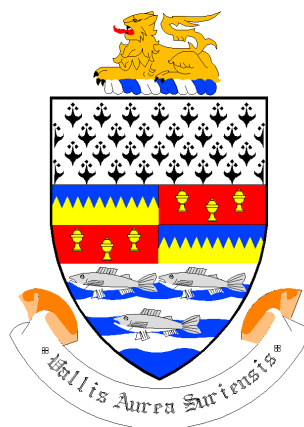


SOUTH TIPPERARY COUNTY COUNCIL



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

2014

Waste Licence Register No. W0200-01

Prepared by:

South Tipperary County Council
Emmet Street
Clonmel

May 2014

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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 2014

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 2014.

This is the seventh 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.

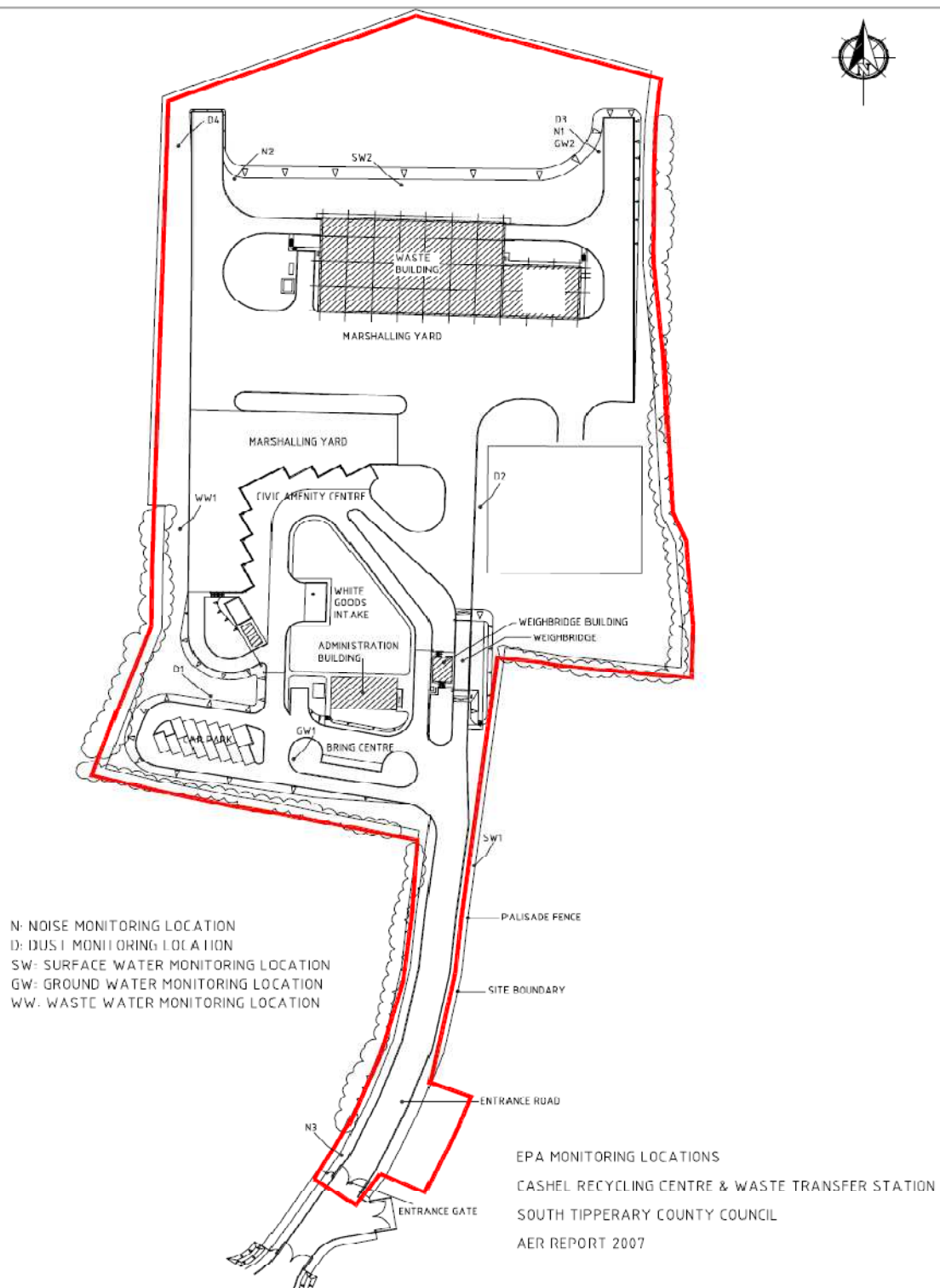


FIGURE 1.1: SITE LOCATION MAP

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 2014 is outlined in Table 2.2.

Table 2.2: Detailed Quantities of Waste removed from Waller's Lot 2014

Waste Type	EWC Code	Quantity of Waste (Tonnes)
Aerosol	16 05 04	0.12
Batteries	16 06 01*	0.68
Cardboard	15 01 01	27.42
C + D	17 09 04	85.36
Cooking Oil	20 01 25	0
Aluminium Cans	19 08 14	1.06
Dry Recyclables	20 03 01	1286.74
Fluorescent tubes	20 01 21	0.36
Glass	20 01 02	621.36
Garden Waste	20 02 01	110.87
Hard Plastics	20 01 39	0
Household Hazardous	20 01 27 / 20 01 37 / 06 05 04	1.92
Electric Fence Batteries	20 01 33	0.88
Lead Acid Batteries	16 06 01	0
Mattresses	20 03 07	29.12
Metal	20 01 40	77.76
Oil Filters	16 01 07	0
Tyres	16 01 03	3.24
Household Waste	20 03 01	5351.91
Newsprint	20 01 01	46.60
Steel Food Cans	15 01 04	5.03
Timber	20 01 37* / 20 01 38	116.36
WEEE	20 01 35* / 20 01 36	152.5
Waste Water	20 03 04	0
Waste Oil	13 08 99	1.22
Textiles	20 01 10 / 20 01 11	28.52
Plaster Board\Gypsum	17 08 02	26.26
Plate Glass	17 02 02	13.10
Plastic Bottles	15 01 02	0
Farm Plastic	15 01 02	0
Gas Cylinders	15 01 11	0
	Total	7988.39

MONITORING AND EMISSIONS

The monitoring carried out during 2014 is detailed below. All environmental monitoring locations are illustrated in Figure 3.1.

2.2 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.

2.2.1 Dust Monitoring Results

Dust Deposition Monitoring

Dust deposition monitoring was carried out in July, August\September, December. The results are shown in Table 3.1 below.

Dust Monitoring Point	Emission Limit	Q2 2014	Q3 2014	Q4 2014	Median
D1 (mg/m ² /day)	350	132.2	95.8	81.5	95.8
D2 (mg/m ² /day)	350	264.5	7.6	280.2	264.5
D3 (mg/m ² /day)	350	224.2	4.7	141.1	141.1
D4 (mg/m ² /day)	350	163.1	79.9	190.6	163.1

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

WALLERS LOT WASTE TRANSFER STATION AND CIVIC AMENITY

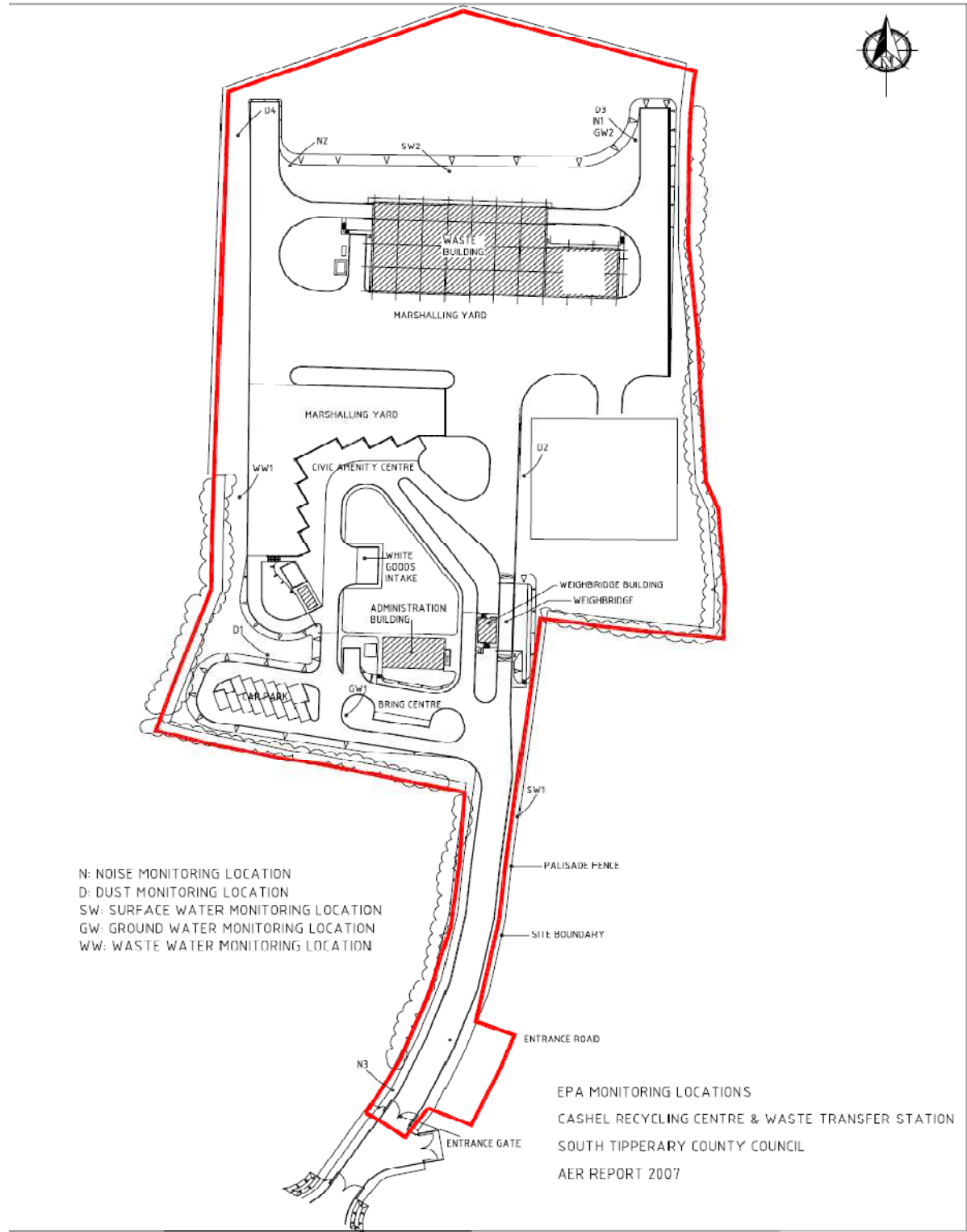


Figure 3.1: Monitoring Locations

2.3 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 26 August 2014. A summary of the results can be seen in Table 3.2 below. A full copy of the results of these tests have been submitted to the Agency.

Table 3.2 Noise Monitoring Results Summary

Monitoring Point	Sampling Interval	Duration 30 (mins)	L(A)_{EQ}	Comments
N1	10.46-11.16	30	56.3	The main source of noise at this point was the operational noise from a water pump pumping nearby and distant noise coming from local road traffic
N2	10.39-11.09	30	55.8	The main source of noise at this location was operational noise from a water pump operating nearby trucks operating and trees rustling
N3	11.25-11.55	30	59.5	The greatest source of noise at this point was the traffic from the R692 entering and leaving the roundabout. birds chirping, noise from the bottle banks and noise from residential area repeating car horn in halting site

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 bi annual 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 2014	Q4 2014	Median
BOD (mg/l)	10	8.29	Dry	
pH	6.0 – 9.0	5.21	Dry	
S.Solids (mg/l)	25	25	Dry	
Mineral Oil (mg/l)	5	0.195	Dry	

Table 3.4 SW2 Surface Water Monitoring Results

Surface Water 2	Emission Limit	Q1 2014	Q4 2014	Median
BOD (mg/l)	10	No Discharge	No Discharge	
pH	6.0 – 9.0	N/a	N/a	
S.Solids (mg/l)	25	N/a	N/a	
Conductivity (us/cm)	1500	N/a	N/a	
Mineral Oil (mg/l)	5	N/a	N/a	

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 bi annual basis. The results can be seen in Table 3.5 below.

Table 3.5 Waste Water Monitoring Results

Wastewater	Emission Limit	Q1 2014	Q4 2014	Median
pH	6.0 - 10.0	7.79	7.895	
Temperature (C)	25	19.1	NT*	
BOD (mg/l)	500	129.9	202.95	
Suspended Solids (mg/l)	500	76	78	
Fats, Oils, Grease (mg/l)	100	17.7	19.0mg/l	
Ammoniacial Nitrogen (mg/l)	50	20.5	32.0	

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 bi annual 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 2014	Q4 2014	Median
Visual Inspection/Odour	No abnormal	No Odour detected	No Odour detected	
Groundwater Level (mts)		9.16	7.76m	
Conductivity (us/cm)	1500	669	NT*	
pH	6.0 – 9.0	7.43	8.395	
Temperature (C)	25	10.6	10.9°C	
Mineral Oil (mg/l)	5	BLD	BLD	

Table 3.7 GW2 Groundwater Monitoring Results

Ground Water 2	Emission Limit	Q1 2014	Q4 2014	Median
Visual Inspection/Odour	No abnormal	No Odour detected	No Odour detected	
Groundwater Level (mts)		7	5.1m	
Conductivity (us/cm)	1500	614	NT*	
pH	6.0 – 9.0	7.53	8.038	
Temperature (C)	25	9.9	10.7°C	
Mineral Oil (mg/l)	5	BLD	BLD	

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:	16 th and 17 th January 2012		
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 2012	Weather:	Dry
<p>1.4. Bund Inspection:</p> <p>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.</p> <p>There were no defects noted at the time of testing.</p>			
<p>Bund Test:</p> <p>The test was carried out in accordance with CIRIA Report 163 Construction of Bunds for Oil Storage Tanks Section 5.5.2.</p> <p>No drop in water level was noted at the end of the test period, indicating the bund was found to be watertight.</p>			
Signed:	-----		
Dated:	Anne Peters Executive Engineer 17/01/2012		

Cashel Recycling Centre & Waste Transfer Station

CONCRETE BUND INSPECTION & TEST

**Bund No.2
Diesel Tank Bund**

Contractor:	South Tipperary Co.Co		
Date:	16 th and 17 th January 2012		
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 2012	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:	----- Anne Peters Executive Engineer
Dated:	17/01/2012

3.7 Resource and Energy Consumption

Electricity and diesel usage are shown below.

Table 4.0 Electricity Use 2014

Total consumption = 40,150kWh for 2014

Table 4.1 Diesel Usage 2014(ltrs)

Jan 13	580.68
Feb 13	203.36
Mar 13	319.73
Apr 13	209.72
May 13	160
June 13	372.29
July 13	656.36
Aug 13	210.72
Sept 13	520.1
Oct 13	350.07
Nov 13	513.82
Dec 13	211.72
Average p\month	359.05

3 SITE DEVELOPMENT / INFRASTRUCTURAL WORKS

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

4.1

The installation a building for WEEE and a concrete slab to facilitate the bulking up of items commenced in 2014 and was completed in 2014

SEW submitted to Agency in 2012.

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.

Doc. No.	Operational Procedure Title	Date of Revision	Revision Number	Date of Review
SCP/4200/04	Emergency Response Procedure	Mar 2014	Rev 4	28-02-14
SCP/4201/04	Corrective Action Procedure	Mar 2014	Rev 4	28-02-14
SCP/4202/02	Awareness and Training Procedure	Mar 2014	Rev 2	28-02-14
SCP/4203/00	Communication Procedure	Mar 2014	Rev 0	28-02-14
SCP/4204/03	Complaints Procedure	Mar 2014	Rev 3	28-02-14
SCP/4205/02	Waste Characterisation and Testing Procedure	Mar 2014	Rev 2	28-02-14
SCP/4206/05	Waste Acceptance & Rejection Procedure	Mar 2014	Rev 5	28-02-14
SCP/4207/03	Vehicle Movement Procedure	Mar 2014	Rev 3	28-02-14
SCP/4208/04	Environmental Monitoring Procedure	Mar 2014	Rev 4	28-02-14
SCP/4209/02	Site Inspection Procedure	Mar 2014	Rev 2	28-02-14
SCP/4210/02	Nuisance Inspection Procedure	Mar 2014	Rev 2	28-02-14
SCP/4211/01	Self Compacting Trailer operating Procedure	Mar 2014	Rev 1	28-02-14
SCP/4212/01	Waste Conveyor Operating Procedure	Mar 2014	Rev 1	28-02-14
SCP/4213/01	Waste Handling Procedure	Mar 2014	Rev 1	28-02-14
SCP/4214/01	Compactor Skip Procedure	Mar 2014	Rev 1	28-02-14
SCP/4215/01	Telescopic Handler Procedure	Mar 2014	Rev 1	28-02-14

6.2 OBJECTIVES AND TARGETS

Objective 1	Continue Advertising campaign	
Target	I	
	Tasks	Timeframe
	1. Advertise facilities in local paper.Ongoing	September 2017
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 2015
	2. Carry out any recommendations for reduction of risk outlined in Safety Statement.	July 2015
	3. Obtain OHSAS 18001	December 2015
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’.	September 2015
	2. Implement audit findings and review. Ongoing	January 2014
	3. Obtain ISO 5001	July 2016
Responsibility	Facility manager & E.E	
Resources\Comments	Audit Completed	

Objective 4	Improve site security	
Target		
	Tasks	Timeframe
	1. Maintain fence 2. Reduce scavengers / trespassers	Ongoing
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 2012	September 2015
	2. Review and update the schedule of objectives and targets 2012	
	3. Implement reviewed EMP	September 2015
	4. Review and update the Corrective Action Procedure	
	5. Review and update the Awareness and Training Programme See Chapter 6	March 2015
	6. Prepare an AER	
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	Completed
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. Implement recommendations of energy audit	Ongoing
Responsibility	Facility manager	
Resources\Comments	Regular monitoring of site water meter .	

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:

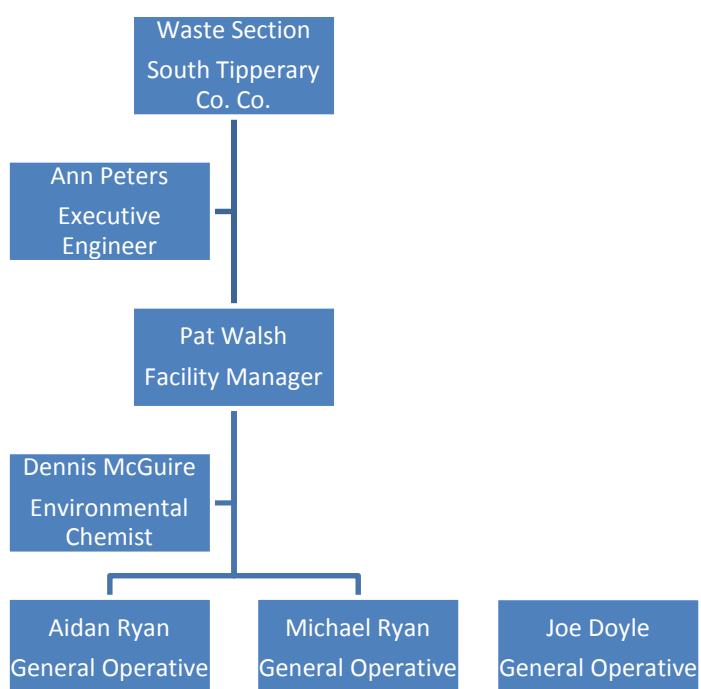


Figure 7.1: Management Structure

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	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

General Operators	Aidan Ryan and Joe Doyle
Qualifications:	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



Air | Noise | Water | Soil | Environmental Consultancy
www.axisenv.ie

Unit 5 Cahirdavin Business Centre,
Ennis Road,
Limerick

South Tipperary County Council
Recycling Centre and Waste Transfer Station,
Waller's Lot,
Cashel,
Co. Tipperary


**Annual Environmental Noise Report
Noise Survey 2014**

Licence Number: W0200-01

Report Reference Number: 3450-14-01
Version: 1
Date of Issue: 06th May 2014
Report Compiled by: David Noonan

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Report Date	06 th May 2014	Site Contact:	Louise Ryan
Report Issued By	Mark Mc Garry	Version No:	1
Signed:		Client:	South Tipperary County Council
Notes:			

1.0 Executive Summary

South Tipperary County Council is required as part of their Waste License W0200 Schedule C.1 and D.3 for Cashel Recycling Centre and Waste Transfer Station; to carry out a noise survey for this installation on an annual basis. AXIS environmental services were commissioned to complete the survey after proposal acknowledgment and acceptance by South Tipperary County Council.

The purpose of the survey was to monitor noise at predetermined locations and assess the sites compliance against Schedule C.1 of the Waste License which sets the noise emission at 55 dB(A) daytime.

All operations at Cashel Recycling Centre and Waste Transfer Station were running as normal throughout the survey. Other sources of noise were recorded at each individual location which are summarised in the report.

The survey was carried out in strict accordance with the standard ISO 1996 Parts 1 – 3, Acoustics – description, measurement and assessment of environmental noise. Reference was also made to the EPA guidelines NG4 "*Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities*" April 2012, in conjunction with the frequently asked questions issued by the Agency in August 2012. The Agency has agreed with South Tipperary Co Co that there only needs to be a day time noise survey carried out on this site.

Three points were monitored for the noise survey at Cashel Recycling Centre and Waste Transfer Station. N1, N2, N3 are facility boundary monitoring points which are located within the confines of the site and are in close proximity to all activities in operation.

There was no tonal or impulsive noise observed at any of the locations for the duration of the assessment.

2.0 Introduction

As part of compliance monitoring at South Tipperary County Council’s Recycling Centre at Cashel, an annual noise survey is to be carried out at nearest noise sensitive locations in and around this location. South Tipperary County Council and the Environmental Protection Agency have agreed the monitoring points chosen to meet the requirements of the license.

The license W0200-01 outlines South Tipperary County Council’s requirements under Schedule C.1 and D.3, which have been documented as follows:

2.1 Schedule C.1 Noise Emissions

Day dB(A) $L_{Aeq}(30\text{minutes})$	Night dB(A) $L_{Aeq}(30\text{ minutes})$
55	45

2.2 Schedule D.3

Table 1: Schedule D3.1: Noise Monitoring Parameters and Frequency

Location	Measurement	Frequency
N1	30 minute Day survey to include $L(A)_{EQ}$, $L(A)_{max}$, $L(A)_{90}$ and 1/3 rd octave measurements	Annually
N2	30 minute Day survey to include $L(A)_{EQ}$, $L(A)_{max}$, $L(A)_{90}$ and 1/3 rd octave measurements	Annually
N3	30 minute Day survey to include $L(A)_{EQ}$, $L(A)_{max}$, $L(A)_{90}$ and 1/3 rd octave measurements	Annually

3.0 Methods

Monitoring was carried out in strict accordance with ISO 1996 Parts 1 – 3, Description and Measurement of Environmental Noise. Reference was also made to the EPA guidelines NG4 "Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities" April 2012, in conjunction with the frequently asked questions issued by the Agency in August 2012.

Table 2: NG4 Noise Survey Recommendations

Period	Minimum Survey Duration outlined in NG4	Amended Requirements by the Agency in NG4 FAQ Version 2	EPA FAQ Information
Daytime (07:00 – 17:00)	4 hour survey with a minimum of 3 sampling periods at each noise monitoring location.	A minimum of 3 sampling periods at each noise monitoring location.	Sample periods relate to the time set in the licence i.e. 15 or 30 minutes per point.
Evening (17:00 – 23:00)	2 hour survey with a minimum of 1 sampling period at each noise monitoring location.	A minimum of 1 sampling period at each noise monitoring location.	This is only a requirement for new or revised licences where the requirement is specified.
Night time (23:00 – 07:00)	3 hour survey with a minimum of 2 sampling periods at each noise monitoring location.	A minimum of 2 sampling periods at each noise monitoring location.	Sample periods relate to the time set in the licence i.e. 15 or 30 minutes per point.

Table 3: Equipment Details

	Meter No 2	Meter No 3
Manufacturer	Cirrus Optimus Green	Cirrus Optimus Green
Model	CR:171B	CR:172B
Serial Number	G061082	G061817
Firmware	V2.3.1156	V2.4.1529
Calibrator	CR:515 Acoustic Calibrator	CR:515 Acoustic Calibrator
Microphone	B&K4180 - 1893453	B&K4180 - 1893453
Windshield Type	UA:237 90mm Foam Windshield	UA:237 90mm Foam Windshield
Calibration Date		
Noise Meter	03 rd February 2014 - 2015	05 th September 2013 - 2014
Certificate Number	191936	198890
Calibrator	05 th September 2013 - 2014	05 th September 2013 - 2014
Certificate Number	203513	210439
On site SLM calibration		
Prior to Survey	93.7	93.7
Calibration Offset	-0.31	0.0
Post Survey	93.7	93.7
Frequency Weighting	A - Broadband	A - Broadband
Meter Response Time	Fast	Fast

4.0 Monitoring Locations

4.1 N1 Day Time Survey

This monitoring location was situated at the North East corner boundary of the facility, close to the waste intake building. The greatest source of noise at this point was the continuous pumping sound from a nearby water pump (located approximately 30 metres from the noise meter).

Other sources of noise at this point included the sound of trucks and JCBs operating closeby, birds chirping in nearby vegetation and distant traffic movements from M8 motorway and R692 regional road.

4.2 N2 Day Time Survey

Noise point 2 was located at the North Western corner boundary of the facility, also close to the waste intake building. The main source of noise at this point was the continuous pumping sound from a nearby water pump (located approximately 60 metres from the noise meter).

Additional noise sources came in the form of trucks operating nearby and trees rustling in the wind.

4.3 N3 Day Time Survey

The final noise monitoring location was situated at the entrance to the facility, close to a halting site. The main source of noise at this point was regular traffic movements on the R692, M8 and cars entering/exiting site.

Other sources of noise recorded at this point include dogs barking in the area, people chatting closeby to the meter, children playing/shouting in nearby halting site, wind rustling trees, occupant of halting site repeatedly beeping a car horn.

5.0 Summary of Daytime Noise Measurements

Noise Monitoring Location:					
N1 (Boundary Monitoring Point)					
Period:	Time	Measured Noise Levels (dB re. 2 x 10 ⁻⁵ Pa)			Comments
		L _{Aeq}	L _{AFMAX}	L _{A90}	
Daytime:	10:46	56	74	53	The greatest source of noise at this point was the continuous pumping sound from a nearby water pump (located approximately 30 metres from the noise meter). Other sources of noise at this point included the sound of trucks and JCBs operating closeby, birds chirping in nearby vegetation and distant traffic movements from M8 motorway and R692 regional road. This site is not required to monitor noise emissions during the evening period. The site is not defined as a new or revised licence since the guidelines were issued in 2012. This site is not required to monitor noise emissions during the night period.
	-	-	-	-	
	-	-	-	-	
Arithmetic Average (dB):		56	74	53	
Daytime Criterion, dB L _{Ar,T} :		-	-	-	
Evening:	-	-	-	-	
Arithmetic Average (dB):		-	-	-	
Evening Criterion, dB L _{Ar,T} :		-	-	-	
Night Time:	-	-	-	-	
	-	-	-	-	
	Arithmetic Average (dB):		-	-	-
	Night time Criterion, dB L _{Ar,T} :		-	-	-
Weather Conditions:					
	Daytime:	Evening:	Night Time:		
Temperature (°C)	8	-	-		
Wind Speed (m/s)	3.5	-	-		
Wind Direction:	Wind from South East	-	-		
Precipitation:	0mm	-	-		
Tonal Noise Assessment					
Daytime:	Run 1: None	-	-		
Night Time:	-	-	-		
Compliance Status – this is not a noise sensitive location therefore limits would not apply					

Noise Monitoring Location:					
N2 (Boundary Monitoring Point)					
Period:	Time	Measured Noise Levels (dB re. 2 x 10 ⁻⁵ Pa)			Comments
		L _{Aeq}	L _{AFMAX}	L _{A90}	
Daytime:	10:39	56	74	49	The main source of noise at this point was the continuous pumping sound from a nearby water pump (located approximately 60 metres from the noise meter). Additional noise sources came in the form of trucks operating nearby and trees rustling in the wind.
	-	-	-	-	
	-	-	-	-	
Arithmetic Average (dB):		56	74	49	
Daytime Criterion, dB L _{Ar,T} :			-	-	
Evening:	-	-	-	-	
Arithmetic Average (dB):		-	-	-	
Evening Criterion, dB L _{Ar,T} :		-	-	-	
Night Time:	-	-	-	-	This site is not required to monitor noise emissions during the night period
	-	-	-	-	
	-	-	-	-	
Arithmetic Average (dB):		-	-	-	
Night time Criterion, dB L _{Ar,T} :		-	-	-	
Weather Conditions:					
	Daytime:	Evening:	Night Time:		
Temperature (°C)	8	-	-		
Wind Speed (m/s)	3.5	-	-		
Wind Direction:	Wind from South East	-	-		
Precipitation:	0mm	-	-		
Tonal Noise Assessment					
Daytime:	Run 1: None	-	-		
Night Time:	-	-	-		
Compliance Status – this is not a noise sensitive location therefore limits would not apply					

Noise Monitoring Location: N3 (Boundary Monitoring Point)					
Period:	Time	Measured Noise Levels (dB re. 2 x 10 ⁻⁵ Pa)			Comments
		L _{Aeq}	L _{AFMAX}	L _{A90}	
Daytime:	11:25	60	86	50	The main source of noise at this point was regular traffic movements on the R692, M8 and cars entering/exiting site. Other sources of noise recorded at this point include dogs barking in the area, people chatting closeby to the meter, children playing/shouting in nearby halting site, wind rustling trees, occupant of halting site repeatedly beeping a car horn.
	-	-	-	-	
Arithmetic Average (dB):		60	86	50	
Daytime Criterion, dB L _{Ar,T} :		-	-	-	
Evening:	-	-	-	-	This site is not required to monitor noise emissions during the evening period. The site is not defined as a new or revised licence since the guidelines were issued in 2012.
Arithmetic Average (dB):		-	-	-	
Evening Criterion, dB L _{Ar,T} :		-	-	-	
Night Time:	-	-	-	-	This site is not required to monitor noise emissions during the night period
	-	-	-	-	
Night time Criterion, dB L _{Ar,T} :		-	-	-	
Weather Conditions:					
	Daytime:	Evening:	Night Time:		
Temperature (°C)	8	-	-		
Wind Speed (m/s)	3.5	-	-		
Wind Direction:	Wind from South East	-	-		
Precipitation:	0mm	-	-		
Tonal Noise Assessment					
Daytime:	Run 1: None	-	-		
Night Time:	-	-	-		
Compliance Status – this is not a noise sensitive location therefore limits would not apply					

6.0 Conclusions

Three locations were monitored at Cashel Recycling Centre and Waste Transfer Station as part of this annual environmental noise survey for South Tipperary County Council. The boundary monitoring points N1, N2 and N3 are located within the boundary of the site.

Each point was monitored for 30 minute periods during the day survey.

Monitoring point N3 had slightly elevated noise levels during the survey [59.5 dB(A)]. The main source of noise at this point was regular traffic movements on the M8, R692 and site entrance. If the L_{A90} was used for assessment, to reduce the impact of interference from traffic movements, the noise level for the survey would drop significantly [50.4 dB(A)].

The monitoring points N1 and N2 both had slightly elevated noise levels during their respective surveys, which can mainly be attributed to a pump operating nearby (this is a once-off operation to clear water out of the back and inside of the waste intake building). Once again, if the L_{A90} was used for assessment, to reduce the impact of interference from the pumping activities, the noise level for the respective surveys for N1 and N2 would drop significantly resulting in both sites being within the daytime limits of 55 dB(A).

There was no tonal or impulsive noise determined at any monitoring location.

Appendix I Graphical Display of Raw Data**Tonal Noise:**

The appropriate level differences vary with frequency. They should be greater than or equal to the following values in both adjacent one third octave bands:

- 15dB in low frequency one third octave bands (25Hz to 125Hz);
- 8dB in middle frequency bands (160Hz to 400Hz), and;
- 5dB in high frequency bands (500Hz to 10,000Hz)

This is the definition outlined by the EPA in the guidance note issued in 2012: NG4.

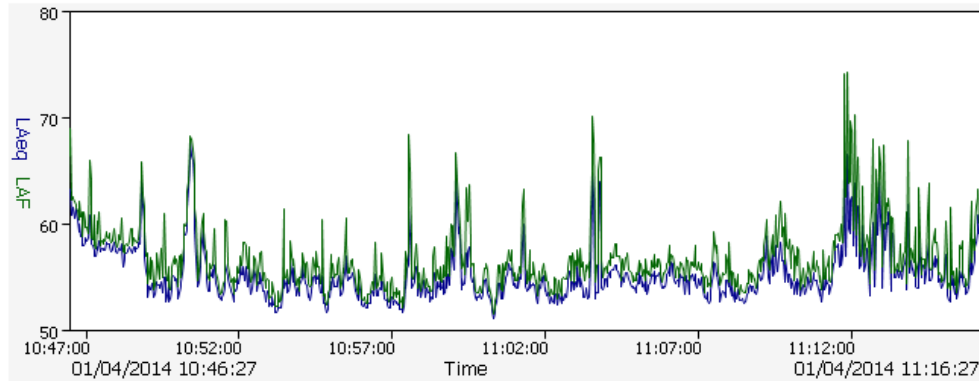


Measurement Summary Report

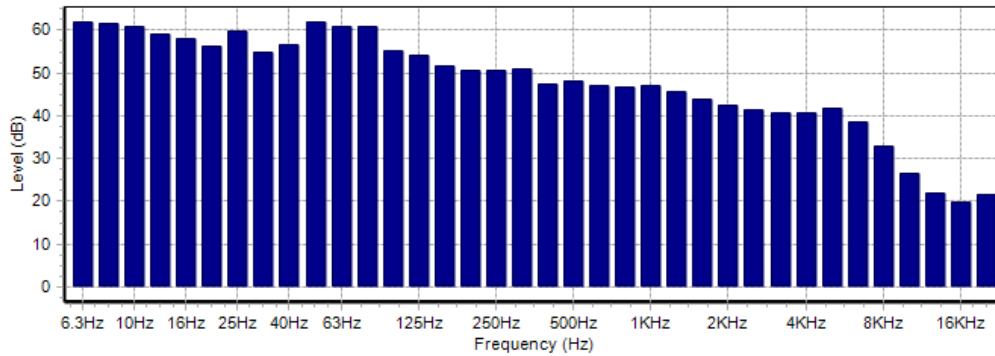
Name	N1	Summary	LAF1	64.8 dB	
Time	01/04/2014 10:46:27	LAeq	56.3 dB	LAF5	60.0 dB
Duration	00:30:00	LAE	88.8 dB	LAF10	58.1 dB
Instrument	G061082, CR:171B	LAFMax	74.2 dB	LAF50	54.4 dB
				LAF90	52.7 dB
				LAF95	52.3 dB
				LAF99	51.7 dB

Calibration Information	Person	Place	Project
01/04/2014 10:42:18 -0.25 dB	David Noonan	Cashel recycling centre	Environmental Noise Surve...
01/04/2014 14:58:09 -0.15 dB			

Time History



Frequency Bands



Report ID



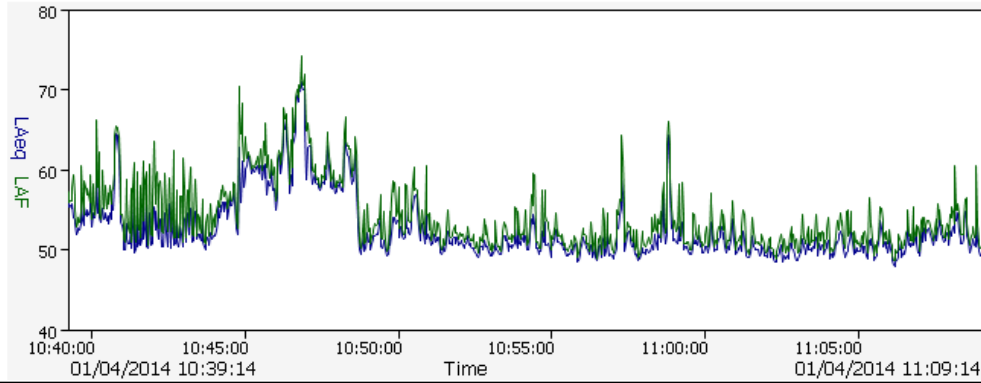


Measurement Summary Report

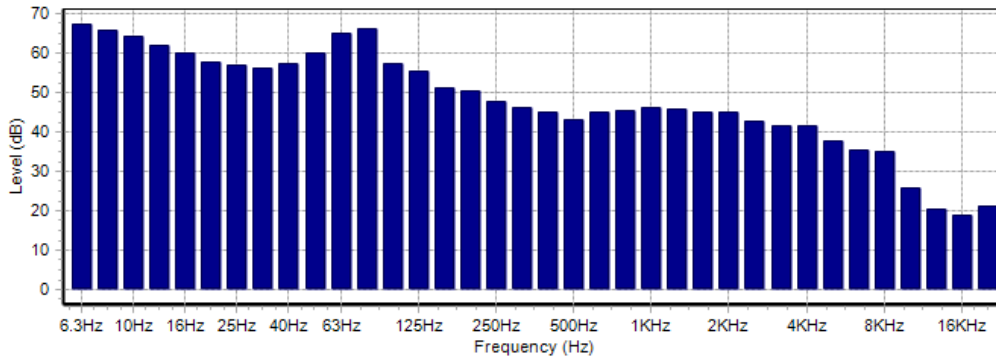
Name	N2	Summary	LAF1	67.5 dB	
Time	01/04/2014 10:39:14	LAeq	55.8 dB	LAF5	61.0 dB
Duration	00:30:00	LAE	88.3 dB	LAF10	58.3 dB
Instrument	G061817, CR:172B	LAFMax	74.2 dB	LAF50	51.0 dB
				LAF90	49.3 dB
				LAF95	48.9 dB
				LAF99	48.3 dB

Calibration Information	Person	Place	Project
01/04/2014 10:37:28 -0.72 dB	David Noonan	Cashel recycling centre	Environmental Noise Surve...
01/04/2014 15:28:17 -0.50 dB			

Time History



Frequency Bands



Report ID



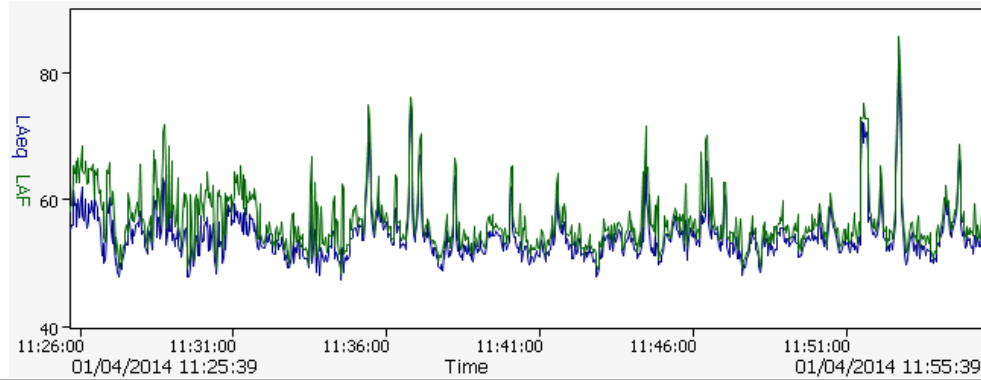


Measurement Summary Report

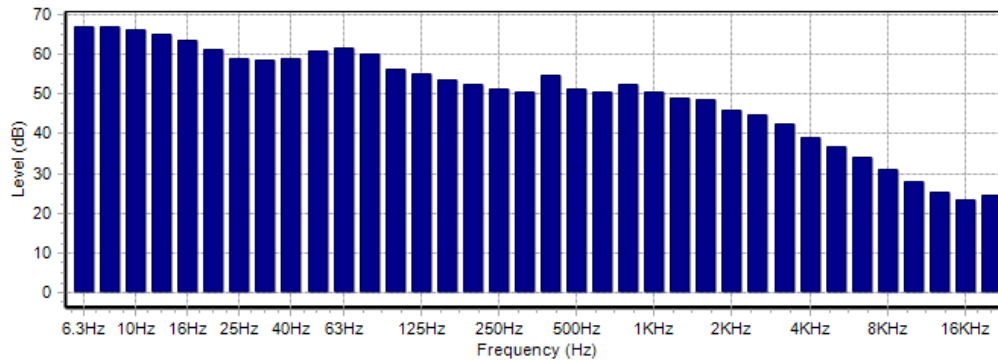
Name	N3	Summary	LAF1	70.4 dB	
Time	01/04/2014 11:25:39	LAeq	59.5 dB	LAF5	61.2 dB
Duration	00:30:00	LAE	92.0 dB	LAF10	58.1 dB
Instrument	G061082, CR:171B	LAFMax	85.6 dB	LAF50	53.3 dB
				LAF90	50.4 dB
				LAF95	49.6 dB
				LAF99	47.9 dB

Calibration Information	Person	Place	Project
01/04/2014 10:42:18 -0.25 dB	David Noonan	Cashel recycling centre	Environmental Noise Surve...
01/04/2014 14:58:09 -0.15 dB			

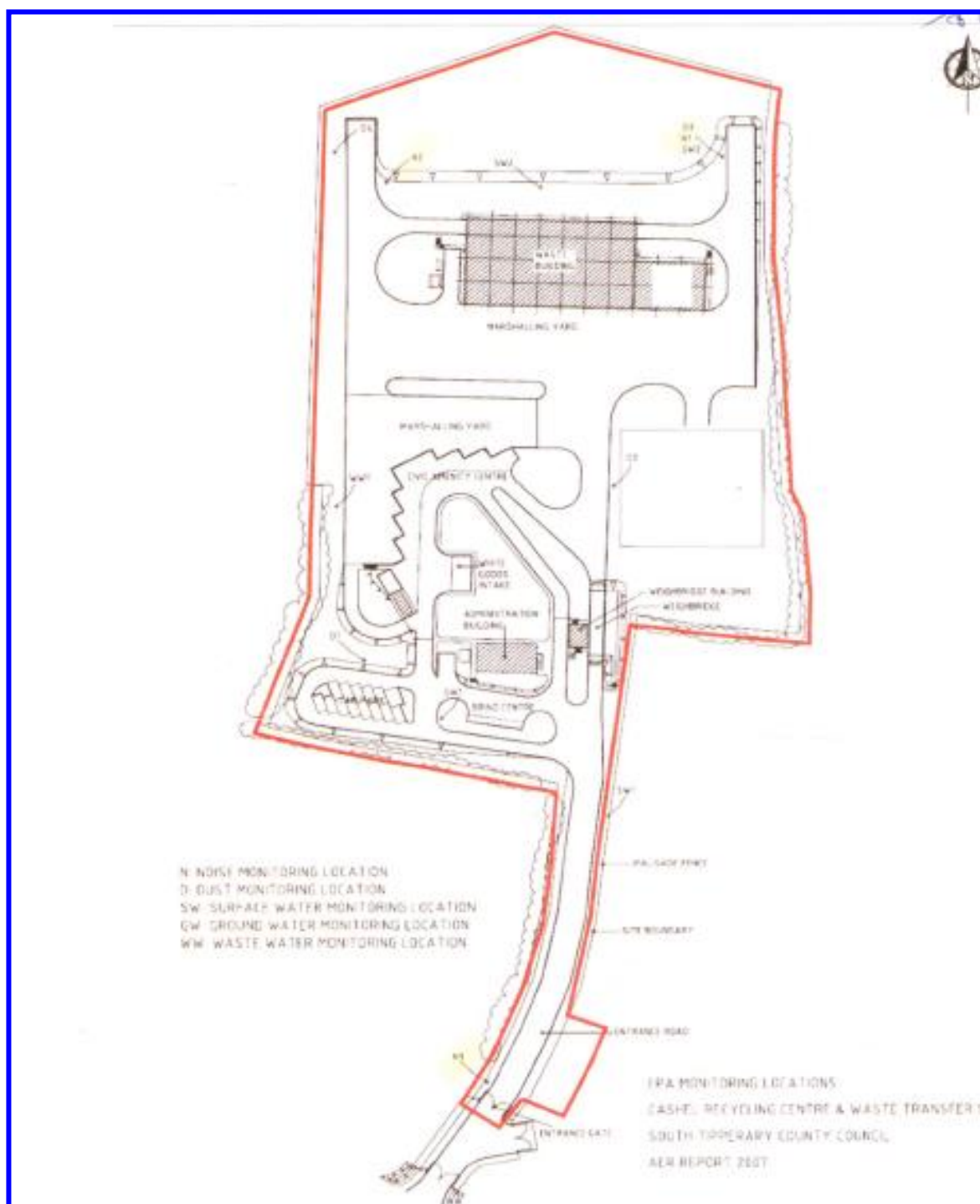
Time History



Frequency Bands




Appendix II Site Map



Appendix III Calibration Certificates

Certificate of Calibration



Cirrus
Research plc
dedicated to noise measurement

Equipment Details

Instrument Manufacturer	Cirrus Research plc
Instrument Type	CR:171B
Description	Sound Level Meter
Serial Number	G061082

Calibration Procedure

The instrument detailed above has been calibrated to the publish test and calibration data as detailed in the instrument hand book, using the techniques recommended in the latest revisions of the International Standards IEC 61672-1:2002, IEC 60651:1979, IEC 60804:2001, IEC 61260:1995, IEC 60942:1997, IEC 61252:1993, ANSI S1.4-1983, ANSI S1.11-1986 and ANSI S1.43-1997 where applicable.
 Sound Level Meters: All Calibration procedures were carried out by substituting the microphone capsule with a suitable electrical signal, apart from the final acoustic calibration.

Calibration Traceability

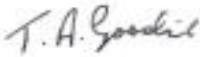
The equipment detailed above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (A.0.6). The standards are:

Microphone Type	B&K4180	Serial Number	1893453	Calibration Ref.	S 6009
Pistonphone Type	B&K4220	Serial Number	613843	Calibration Ref.	S 5964

Calibrated by

Calibration Date

Calibration Certificate Number



03 February 2014

214646

This Calibration Certificate is valid for 12 months from the date above.

Cirrus Research plc, Acoustic House, Bridlington Road, Hummby, North Yorkshire, YO14 0PH
 Telephone: +44 (0) 1723 891635 Fax: +44 (0) 1723 891742
 Email: sales@cirrusresearch.co.uk

Certificate of Calibration



Equipment Details

Instrument Manufacturer Cirrus Research plc
 Instrument Type CR:172B
 Description Sound Level Meter
 Serial Number 0061817

Calibration Procedure

The instrument detailed above has been calibrated to the publish test and calibration data as detailed in the instrument hand book, using the techniques recommended in the latest revisions of the International Standards IEC 61672-1:2002, IEC 60651-1:1979, IEC 60804:2001, IEC 61260:1995, IEC 60942:1997, IEC 61252:1993, ANSI S1.4-1983, ANSI S1.11-1986 and ANSI S1.43-1997 where applicable.
 Sound Level Meters: All Calibration procedures were carried out by substituting the microphone capsule with a suitable electrical signal, apart from the final acoustic calibration.

Calibration Traceability

The equipment detailed above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (A.O.6). The standards are:

Microphone Type	B&K4180	Serial Number	1893453	Calibration Ref.	S 6009
Pistonphone Type	B&K4220	Serial Number	613843	Calibration Ref.	S 5964

Calibrated by

Calibration Date

05 September 2013

Calibration Certificate Number

210439

This Calibration Certificate is valid for 12 months from the date above.

Cirrus Research plc, Acoustic House, Bridlington Road, Hamnaby, North Yorkshire, YO14 0PH
 Telephone: +44 (0) 1723 891655 Fax: +44 (0) 1723 891742
 Email: sales@cirrusresearch.co.uk

Certificate of Calibration



Equipment Details

Instrument Manufacturer Cirrus Research plc
 Instrument Type CR:511E
 Description Acoustic Calibrator
 Serial Number 41373

Calibration Procedure

The acoustic calibrator detailed above has been calibrated to the published data as described in the operating manual. The procedures and techniques used to follow the recommendations of the IEC standard Electroacoustics – Sound Calibrators IEC 60942:2005, IEC 60942:1997, BS EN 60942:1998 and BS EN 60942:2003 where applicable. The calibrator's main output is 94.00 dB (1 Pa) and this was set within the 0.01 dB resolution of the test system, i.e. one hundredth of a decibel. Numbers in [parenthesis] refer to the paragraph in IEC 60942.

Calibration Traceability

The calibrator above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (A.0.6). The standards are:

Microphone Type	B&K4180	Serial Number	1893453	Calibration Ref.	S 6009
Pistonphone Type	B&K4220	Serial Number	613843	Calibration Ref.	S 5964

Calibration Climate Conditions

The climatic test conditions were all maintained within the permitted limits of IEC 60942:1997.

Temperature	(B.3.2)	Permitted band 15°C to 25°C
Humidity	(B.3.2)	Permitted band 30% to 90% RH
Static Pressure	(B.3.2)	Permitted band 85 kPa to 105 kPa
Ambient Noise Level	(B.3.3.6)	Max permitted level 64 dB(Z)

Measurement Results

The figures below are the Calibration Laboratory test limits for this model calibrator and have a smaller tolerance than those permitted in IEC 60942.

94 dB Output	94.00 dB	Permitted band	93.95 to 94.05 dB
104 dB Output	103.99 dB	Permitted band	103.80 to 104.30 dB
Frequency	998 Hz	Permitted band	990 to 1010 Hz

Uncertainty

With an uncertainty coefficient of $k=2$, i.e. a 95% confidence level, the uncertainty of each measure is

94 dB Output	± 0.13 dB	104 dB Output	± 0.14 dB
Frequency	± 0.1 Hz	Level Stability	± 0.04 dB

Calibrated by

Calibration Date

05 September 2013

Calibration Certificate Number

210438

This Calibration Certificate is valid for 12 months from the date above.

Cirrus Research plc, Acoustic House, Bridlington Road, Hummby, North Yorkshire, YO14 0PH
 Telephone: +44 (0) 1723 891655 Fax: +44 (0) 1723 891742
 Email: sales@cirrusresearch.co.uk

Glossary of Terms

Note: Not all terms were used in the description of noise for this noise survey.

Ambient noise	The totally encompassing sound in a given situation at a given time, usually composed of sound from many sources, near and far.
Acoustic shadow	An acoustic shadow is an area through which sound waves fail to propagate, due to topographical obstructions or disruption of the waves via phenomena such as wind currents.
Background noise	The steady existing noise level present without contribution from any intermittent sources. The A weighted sound pressure level of the residual noise at the assessment position that is exceeded for 90 per cent of a given time interval, T (LAF90,T).
Broadband	Sounds that contain energy distributed across a wide range of frequencies.
Competent person	Individual possessing a combination of technical knowledge, experience and skills as outlined in Section 2.0 and who can demonstrate both practical and theoretical competence.
Criterion noise level	The long term mean value of the noise level that must not be exceeded. This is generally stipulated in the IPPC/Waste licence and it may be applied to a noise source, a boundary of the activity or to an NSL in the vicinity of the site.
dB	Decibel. The scale in which sound pressure level is expressed. It is defined as 20 times the logarithm of the ratio between the RMS pressure of the sound field and the reference pressure of 20 micro pascals (20 uPa).
Facade level	The noise level at a location 1m from the facade of a building is described by the term facade level, and is subject to a higher noise level than one in an open area (free-field conditions) due to reflection effects.
Free field	These are conditions in which the radiation from sound sources is unaffected by the presence of any reflecting boundaries or the source itself. In practice, it is a field in which the effects of the boundaries are negligible over the frequency range of interest. In environmental noise, true free-field measurement conditions are seldom achieved and generally the microphone will be positioned at a height between 1.2 and 1.5 metres above ground level. To minimise the influence of reflections, measurements are generally made at least 3.5 metres from any reflecting surface other than the ground.
Hertz (Hz)	The unit of sound frequency in cycles per second.
Impulsive	A noise that is of short duration (typically less than one second), the sound pressure level of which is significantly higher than the background.
L_{Aeq,T}	This is the equivalent continuous sound level. It is a type of average and is used to describe a fluctuating noise in terms of a single noise level over the sample period (T). The closer the L _{Aeq} value is to either the LAF10 or LAF90 value indicates the relative impact of the intermittent sources and their contribution. The relative spread between the values determines the impact of intermittent sources, such as traffic, on the background.
LAFN	The A-weighted noise level exceeded for N% of the sampling interval. Measured using the "Fast" time weighting.
L_{Ar,T}	The Rated Noise Level, equal to the L _{Aeq} during a specified time interval (T), plus specified adjustments for tonal character and/or impulsiveness of the sound.

LAF10	Refers to those A-weighted noise levels in the top 10 percentile of the sampling interval; it is the level which is exceeded for 10% of the measurement period. It is used to determine the intermittent high noise level features of locally generated noise and usually gives an indicator of the level of road traffic. Measured using the "Fast" time weighting.
LAF90	Refers to those A-weighted noise levels in the lower 90 percentile of the sampling interval; it is the level which is exceeded for 90% of the measurement period. It will therefore exclude the intermittent features of traffic and is used to describe a background level. Measured using the "Fast" time weighting.
LAFmax	The maximum RMS A-weighted sound pressure level occurring within a specified time period. Measured using the "Fast" time weighting.
LAFmin	The minimum RMS A-weighted sound pressure level occurring within a specified time period. Measured using the "Fast" time weighting.
Lden	Is the 24 hour noise rating level determined by the averaging of the Lday with the Levening plus a 5 dB penalty and the Lnight plus a 10 dB penalty.
Low background noise	An area of low background noise is one where the existing background noise levels measured during an environmental noise survey are as follows: <ul style="list-style-type: none"> o Average Daytime Background Noise Level ≤ 40dB LAF90, and; o Average Evening Background Noise Level ≤ 35dB LAF90, and; o Average Night-time Background Noise Level ≤ 30dB LAF90.
Low frequency noise	LFN - noise which is dominated by frequency components towards the lower end of the frequency spectrum; see Appendix VI for a more detailed discussion.
LpA (dB)	An 'A-weighted decibel' K a measure of the overall level of sound across the audible frequency range (20Hz – 20kHz) with A-frequency weighting (i.e. 'A-weighting') to compensate for the varying sensitivity of the human ear to sound at different frequencies.
Noise	Any sound, that has the potential to cause disturbance, discomfort or psychological stress to a person exposed to it, or any sound that could cause actual physiological harm to a person exposed to it, or physical damage to any structure exposed to it, is known as noise.
Noise sensitive location	NSL – any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or other area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
Octave band	A frequency interval, the upper limit of which is twice that of the lower limit. For example, the 1,000Hz octave band contains acoustical energy between 707Hz and 1,414Hz. The centre frequencies used for the designation of octave bands are defined in ISO and ANSI standards.
Rating level	See LAr,T.
RMS	The RMS (Root Mean Square) value of a set of numbers is the square root of the average of their squares.
SEL (LAX or LAE)	Sound exposure level – a measure of the A-weighted sound energy used to describe noise events such as the passing of a train or aircraft; it is the A-weighted sound pressure level if occurring over a period of 1 second, would contain the same amount of A-weighted sound energy as the event.
Sound pressure level	Sound pressure refers to the fluctuations in air pressure caused by the passage of a sound wave. It may be expressed in terms of sound pressure level at a point.

Specific noise level	A component of the ambient noise which can be specifically identified by acoustical means and may be associated with a specific source. In BS 4142, there is a more precise definition as follows: 'the equivalent continuous A-weighted sound pressure level at the assessment position produced by the specific noise source over a given reference time interval (LAeq, T)'.
Time weighting	One of the averaging times (Fast, Slow or Impulse) used for the measurement of RMS sound pressure level in sound level meters.
Tonal	Sounds which cover a range of only a few Hz which contains a clearly audible tone, i.e. distinguishable, discrete or continuous noise (whine, hiss, screech, or hum etc.) are referred to as being 'tonal'.
1/3 octave analysis	Frequency analysis of sound such that the frequency spectrum is subdivided into bands of one-third of an octave each.

APPENDIX 2



[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.18

REFERENCE YEAR	2014
-----------------------	------

1. FACILITY IDENTIFICATION

Parent Company Name	Tipperary County Council
Facility Name	Recycling Centre and Waste Transfer Station
PRTR Identification Number	W0200
Licence Number	W0200-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Waller's Lot
Address 2	Cashel
Address 3	
Address 4	
	Tipperary
Country	Ireland
Coordinates of Location	-7.8745 52.5126
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Pat Walsh
AER Returns Contact Email Address	pat.walsh@tipperarycoco.ie
AER Returns Contact Position	Facility Manager
AER Returns Contact Telephone Number	06264150
AER Returns Contact Mobile Phone Number	0872318627
AER Returns Contact Fax Number	06264157
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	4
User Feedback/Comments	New Businesses using facility in 2014
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General
50.1	General

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

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

4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	
--	--

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0200 | Facility Name : Recycling Centre and Waste Transfer Station | Filename : w0200_2014.xlsx | Return Year : 2014 |

25/05/2015 12:00

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		RELEASES TO AIR			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	METHOD		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

POLLUTANT		RELEASES TO AIR			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	METHOD		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

POLLUTANT		RELEASES TO AIR			Please enter all quantities in this section in KGs			
Pollutant No.	Name	M/C/E	METHOD		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill:		Recycling Centre and Waste Transfer Station				
Please enter summary data on the quantities of methane flared and / or utilised		T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour
				Method Code	Designation or Description	
Total estimated methane generation (as per site model)		0.0				N/A
Methane flared		0.0				0.0 (Total Flaring Capacity)
Methane utilised in engine/s		0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)		0.0				N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

* Select a row by double-clicking on the Pollutant Name (Column B)

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

* Select a row by double-clicking on the Pollutant Name (Column B)

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO WATERS	
POLLUTANT	
Pollutant No.	Name

* Select a row by double-clicking on the Pollutant Name (Column B)

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be entered here.

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

OT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0200 | Facility Name : Recycling Centre and Waste Transfer Station | Filename : w0200

25/05/2015 12:00

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND	
POLLUTANT	
No. Annex II	Name

* Select a row by double-clicking on the Pollutant Name (Column B)

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO LAND	
POLLUTANT	
Pollutant No.	Name

* Select a row by double-clicking on the Pollutant Name (Column B)

METHOD			Please enter all quantities
M/C/E	Method Code	Designation or Description	Emission Point 1
			0.0

) then click the delete button

METHOD			Please enter all quantities
M/C/E	Method Code	Designation or Description	Emission Point 1
			0.0

) then click the delete button

in this section in KGs	
QUANTITY	
T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0

in this section in KGs	
QUANTITY	
T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0200 | Facility Name : Recycling Centre and Waste Transfer Station | Filename : w0200_2014.xlsx | Return Year : 2014 |

25/05/2015 12:00

Please enter all quantities on this sheet in Tonnes

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Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility	Non	Haz Waste : Address of Next Destination Facility	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						Haz Waste : Name and Licence/Permit No of Recover/Disposer	Non Haz Waste: Address of Recover/Disposer						
Within the Country	13 08 99	Yes	1.22	Waste Oil	R13	M	Weighed	Offsite in Ireland	Enva,W0184-01	.....,Ireland	Enva,W0184-01,Enva,Clonimam ind est,Portlaoise,..,Ireland	Enva,Clonimam ind est,..,Portlaoise,Ireland
Within the Country	15 01 01	No	27.42	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	Greenstar,WO-103-81	.....,Ireland		
Within the Country	15 01 01	No	27.42	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	Greenstar,WO-103-81	.....,Ireland		
Within the Country	15 01 02	No	0.0	plastic packaging	R13	M	Weighed	Offsite in Ireland	Walker Recycling Services,WMP044B	.....,Ireland		
Within the Country	15 01 04	No	6.36	metallic packaging	R13	M	Weighed	Offsite in Ireland	Rehab Recycling,08/04 (Reg 635)	.....,Ireland		
Within the Country	15 01 04	No	0.0	metallic packaging	R13	M	Weighed	Offsite in Ireland	Rehab Recycling,08/04 (Reg 635)	.....,Ireland		
To Other Countries	15 01 06	No	0.0	mixed packaging	R13	M	Weighed	Abroad	Regen Waste,LN/10/50/M Dillon Waste,WFP KY 10-001	.....,Ireland	Kingdom The Kerries,..,Tralee,Co. Kerry,Ireland	
Within the Country	15 01 06	No	0.0	mixed packaging	R13	M	Weighed	Offsite in Ireland	Clean Ireland Recycling,W0253-01	.....,Ireland	West,Cree,Clare,..,Ireland	
Within the Country	15 01 06	No	1167.02	mixed packaging	R13	M	Weighed	Offsite in Ireland	Mr.Binman,WFP-TS-10-0006-01	.....,Ireland		
Within the Country	15 01 06	No	0.0	mixed packaging	R13	M	Weighed	Offsite in Ireland	P K Rubber,WFP-CK10-0059-01	.....,Ireland	Roovesmore,..,Coachford,Cor k,Ireland	
Within the Country	16 01 03	No	3.24	end-of-life tyres gases in pressure containers (including halons) containing dangerous substances	R5	M	Weighed	Offsite in Ireland					
To Other Countries	16 05 04	Yes	0.12	halons) containing dangerous substances	R13	M	Weighed	Abroad	Enva,W0184-01	.....,Ireland	Geocycle,38.152/BP,Feneffe,.....,Belgium	.....,Belgium
Within the Country	16 06 02	Yes	0.0	Ni-Cd batteries	R13	M	Weighed	Offsite in Ireland	KMK,W0113-04	.....,Ireland	KMK,W0114,KMK,..,Tullamore,..,Ireland	KMK,..,Tullamore,..,Ireland
To Other Countries	16 06 05	No	0.68	other batteries and accumulators	R13	M	Weighed	Abroad	KMK,W0113-04	.....,Ireland	Geocycle,38.152/BP,Feneffe,.....,Belgium	.....,Belgium
Within the Country	17 02 02	No	13.1	glass	R13	M	Weighed	Offsite in Ireland	Greenstar,WO-103-81	.....,Ireland		
Within the Country	17 08 02	No	26.26	gypsum-based construction materials other than those mentioned in 17 08 01 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17	R13	M	Weighed	Offsite in Ireland	Greenstar,WO-103-81	.....,Ireland		
Within the Country	17 09 04	No	85.36	09 02 and 17 09 03	R13	M	Weighed	Offsite in Ireland	Greenstar,WO-103-81	.....,Ireland		
Within the Country	20 01 01	No	46.6	paper and cardboard	R13	M	Weighed	Offsite in Ireland	Greenstar,WO-103-81	.....,Ireland		
Within the Country	20 01 02	No	621.36	glass	R13	M	Weighed	Offsite in Ireland	Rehab Recycling,08/04 (Reg 635)	.....,Ireland		
To Other Countries	20 01 10	No	28.52	clothes	R13	M	Weighed	Abroad	Cookstown Recycling,Charity	.....,United Kingdom		
Within the Country	20 01 21	Yes	0.36	fluorescent tubes and other mercury-containing waste	R13	M	Weighed	Offsite in Ireland	KMK,W0113-04	.....,Ireland	KMK,W0114,KMK,..,Tullamore,..,Ireland	KMK,..,Tullamore,..,Ireland
To Other Countries	20 01 27	Yes	1.92	paint, inks, adhesives and resins containing dangerous substances	R13	M	Weighed	Abroad	Enva,W0184-01	.....,Ireland	Geocycle,38.152/BP,Feneffe,.....,Belgium	.....,Belgium
To Other Countries	20 01 35	Yes	152.5	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components	R13	M	Weighed	Abroad	Enva,W0184-01	.....,Ireland	Geocycle,38.152/BP,Feneffe,.....,Belgium	.....,Belgium
Within the Country	20 01 38	No	116.36	wood other than that mentioned in 20 01 37	R13	M	Weighed	Offsite in Ireland	KMK,W0113-04	.....,Ireland	Geocycle,38.152/BP,Feneffe,.....,Belgium	.....,Belgium
Within the Country	20 01 01	No	0.0	paper and cardboard	R13	M	Weighed	Offsite in Ireland	Clonmel Waste Disposal Ltd.,WCPKK/025/02	.....,Ireland	Lawless Town,..,Clonmel,Tipperary,Ireland	
Within the Country	20 01 40	No	77.76	metals	R13	M	Weighed	Offsite in Ireland	Greenstar,WO-103-81	.....,Ireland		
Within the Country	20 03 01	No	2988.81	mixed municipal waste	D13	M	Weighed	Offsite in Ireland	Greenstar,WO-103-81	.....,Ireland		
Within the Country	20 03 01	No	2988.81	mixed municipal waste	D13	M	Weighed	Offsite in Ireland	Clonmel Waste Disposal Ltd.,WCPKK/025/02	.....,Ireland	Lawless Town,..,Clonmel,Tipperary,Ireland	

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility	Haz Waste : Address of Next Destination Facility	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						Haz Waste: Name and Licence/Permit No of Recover/Disposer	Non-Haz Waste: Address of Recover/Disposer					
Within the Country	20 03 07	No	29.12	Mattresses	R13	M	Weighed	Offsite in Ireland	Ashgrove Recycling,W0147-01	Churchfield Ind Est,..,Churchfield,Cork,Ireland		
Within the Country	20 03 01	No	2157.58	mixed municipal waste	D13	M	Weighed	Offsite in Ireland	Clean Ireland Recycling,W0253-01	Ballingun West,Cree,Clare,..,Ireland		
Within the Country	20 03 01	No	205.52	mixed municipal waste batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these	D13	M	Weighed	Offsite in Ireland	Ryan Brothers Ltd.,NWCPO-08-10597-02	Mill Road,..,Thurles,Tipperary,Irel and		
Within the Country	20 01 33	Yes	0.88	batteries	R13	M	Weighed	Offsite in Ireland	Enva,W0184-01	.....,Ireland	Geocycle,38.152/BP,Feneffe, .....,Belgium	.....,Belgium
Within the Country	20 02 01	No	110.87	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Clonmel Waste Disposal Ltd.,WCPKK/025/02	Lawless Town,..,Clonmel,Tipperary,Ireland		

* Select a row by double-clicking the Description of Waste then click the delete button

[Link to previous years waste data](#)
[Link to previous years waste summary data & percentage change](#)
[Link to Waste Guidance](#)

NACE_Group	NACE_SubGroup	NACE_Code
12	0	0
36	0	0
37	0	0
39	0	0
75	0	0
92	0	0
97	0	0
99	0	0
02	1	0
05	1	0
06	1	0
07	1	0
09	1	0
13	1	0
16	1	0
19	1	0
21	1	0
24	1	0
29	1	0
41	1	0
49	1	0
50	1	0
51	1	0
52	1	0
53	1	0
55	1	0
56	1	0
60	1	0
61	1	0
68	1	0
69	1	0
70	1	0
74	1	0
78	1	0
80	1	0
81	1	0
85	1	0
86	1	0
87	1	0
88	1	0
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15	2	0
18	2	0
19	2	0
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32	2	0
33	2	0
41	2	0
45	2	0
49	2	0
50	2	0
53	2	0
55	2	0
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94	2	0
98	2	0
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66	3	0
74	3	0
78	3	0
80	3	0
81	3	0
82	3	0
84	3	0
87	3	0
02	4	0
25	4	0

26	4	0
27	4	0
30	4	0
32	4	0
45	4	0
50	4	0
77	4	0
01	5	0
25	5	0
32	5	0
49	5	0
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59	1	1
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11	0	2
31	0	2
62	0	2
90	0	2
91	0	2
96	0	2
01	1	2

03	1	2
08	1	2
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15	1	2
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23	1	2
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66	2	2
70	2	2
77	2	2
81	2	2
84	2	2
86	2	2
95	2	2
10	3	2

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24	3	2
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29	3	2
38	3	2
43	3	2
45	3	2
46	3	2
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77	3	2
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28	9	2
30	9	2
64	9	2
82	9	2
94	9	2
11	0	3
31	0	3
62	0	3
90	0	3
91	0	3

96	0	3
01	1	3
10	1	3
14	1	3
18	1	3
20	1	3
23	1	3
28	1	3
32	1	3
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43	1	3
46	1	3
58	1	3
59	1	3
84	1	3
93	1	3
01	2	3
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NACE Description

Manufacture of tobacco products
Water collection, treatment and supply
Sewerage
Remediation activities and other waste management services
Veterinary activities
Gambling and betting activities
Activities of households as employers of domestic personnel
Activities of extraterritorial organisations and bodies
Silviculture and other forestry activities
Mining of hard coal
Extraction of crude petroleum
Mining of iron ores
Support activities for petroleum and natural gas extraction
Preparation and spinning of textile fibres
Sawmilling and planing of wood
Manufacture of coke oven products
Manufacture of basic pharmaceutical products
Manufacture of basic iron and steel and of ferro-alloys
Manufacture of motor vehicles
Development of building projects
Passenger rail transport, interurban
Sea and coastal passenger water transport
Passenger air transport
Warehousing and storage
Postal activities under universal service obligation
Hotels and similar accommodation
Restaurants and mobile food service activities
Radio broadcasting
Wired telecommunications activities
Buying and selling of own real estate
Legal activities
Activities of head offices
Specialised design activities
Activities of employment placement agencies
Private security activities
Combined facilities support activities
Pre-primary education
Hospital activities
Residential nursing care activities
Social work activities without accommodation for the elderly and disabled
Undifferentiated goods-producing activities of private households for own use
Logging
Mining of lignite
Extraction of natural gas
Processing and preserving of fish, crustaceans and molluscs
Weaving of textiles
Manufacture of articles of fur
Manufacture of footwear
Reproduction of recorded media
Manufacture of refined petroleum products
Manufacture of pesticides and other agrochemical products
Manufacture of pharmaceutical preparations
Manufacture of refractory products
Manufacture of tubes, pipes, hollow profiles and related fittings, of steel
Manufacture of computers and peripheral equipment

Manufacture of batteries and accumulators
Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers
Manufacture of railway locomotives and rolling stock
Manufacture of musical instruments
Installation of industrial machinery and equipment
Construction of residential and non-residential buildings
Maintenance and repair of motor vehicles
Freight rail transport
Sea and coastal freight water transport
Other postal and courier activities
Holiday and other short-stay accommodation
Sound recording and music publishing activities
Television programming and broadcasting activities
Wireless telecommunications activities
Activities of holding companies
Reinsurance
Renting and operating of own or leased real estate
Accounting, bookkeeping and auditing activities; tax consultancy
Technical testing and analysis
Research and experimental development on social sciences and humanities
Market research and public opinion polling
Photographic activities
Temporary employment agency activities
Security systems service activities
Activities of call centres
Primary education
Residential care activities for mental retardation, mental health and substance abuse
Activities of trade unions
Undifferentiated service-producing activities of private households for own use
Plant propagation
Gathering of wild growing non-wood products
Finishing of textiles
Manufacture of paints, varnishes and similar coatings, printing ink and mastics
Manufacture of steam generators, except central heating hot water boilers
Manufacture of communication equipment
Manufacture of agricultural and forestry machinery
Manufacture of air and spacecraft and related machinery
Manufacture of sports goods
Steam and air conditioning supply
Retail sale of automotive fuel in specialised stores
Inland passenger water transport
Camping grounds, recreational vehicle parks and trailer parks
Beverage serving activities
Satellite telecommunications activities
Trusts, funds and similar financial entities
Pension funding
Fund management activities
Translation and interpretation activities
Other human resources provision
Investigation activities
Landscape service activities
Organisation of conventions and trade shows
Compulsory social security activities
Residential care activities for the elderly and disabled
Support services to forestry
Manufacture of weapons and ammunition

Manufacture of consumer electronics
Manufacture of electric lighting equipment
Manufacture of military fighting vehicles
Manufacture of games and toys
Sale, maintenance and repair of motorcycles and related parts and accessories
Inland freight water transport
Leasing of intellectual property and similar products, except copyrighted works
Mixed farming
Forging, pressing, stamping and roll-forming of metal; powder metallurgy
Manufacture of medical and dental instruments and supplies
Transport via pipeline
Manufacture of man-made fibres
Manufacture of irradiation, electromedical and electrotherapeutic equipment
Educational support activities
Hunting, trapping and related service activities
Cutting, shaping and finishing of stone
Manufacture of optical instruments and photographic equipment
Manufacture of magnetic and optical media
Support activities for other mining and quarrying
Manufacture of other electrical equipment
Non-specialised wholesale trade
Other accommodation
Other telecommunications activities
Other professional, scientific and technical activities n.e.c.
Other reservation service and related activities
Other human health activities
Other residential care activities
Distilling, rectifying and blending of spirits
Manufacture of office and shop furniture
Computer programming activities
Performing arts
Library and archives activities
Washing and (dry-)cleaning of textile and fur products
Growing of cereals (except rice), leguminous crops and oil seeds
Marine fishing
Quarrying of ornamental and building stone, limestone, gypsum, chalk and slate
Processing and preserving of meat
Manufacture of leather clothes
Tanning and dressing of leather; dressing and dyeing of fur
Manufacture of pulp
Printing of newspapers
Manufacture of industrial gases
Manufacture of rubber tyres and tubes; retreading and rebuilding of rubber tyres
Manufacture of flat glass
Manufacture of metal structures and parts of structures
Manufacture of electronic components
Manufacture of electric motors, generators and transformers
Manufacture of engines and turbines, except aircraft, vehicle and cycle engines
Building of ships and floating structures
Striking of coins
Repair of fabricated metal products
Production of electricity
Collection of non-hazardous waste
Construction of roads and motorways
Demolition
Sale of cars and light motor vehicles

Agents involved in the sale of agricultural raw materials, live animals, textile raw materials and semi-finished goods
Retail sale in non-specialised stores with food, beverages or tobacco predominating
Book publishing
Motion picture, video and television programme production activities
Data processing, hosting and related activities
Central banking
Life insurance
Administration of financial markets
Architectural activities
Research and experimental development on biotechnology
Advertising agencies
Renting and leasing of cars and light motor vehicles
Travel agency activities
Combined office administrative service activities
General public administration activities
Operation of sports facilities
Activities of business and employers membership organisations
Repair of computers and peripheral equipment
Growing of grapes
Marine aquaculture
Mining of uranium and thorium ores
Manufacture of veneer sheets and wood-based panels
Manufacture of corrugated paper and paperboard and of containers of paper and paperboard
Manufacture of plastic plates, sheets, tubes and profiles
Manufacture of central heating radiators and boilers
Manufacture of ovens, furnaces and furnace burners
Manufacture of gas
Treatment and disposal of non-hazardous waste
Construction of utility projects for fluids
Electrical installation
Wholesale of grain, unmanufactured tobacco, seeds and animal feeds
Retail sale of fruit and vegetables in specialised stores
Freight air transport
Service activities incidental to land transportation
Event catering activities
Publishing of computer games
Risk and damage evaluation
Public relations and communication activities
Renting and leasing of recreational and sports goods
General cleaning of buildings
Foreign affairs
General medical practice activities
Activities of amusement parks and theme parks
Repair of consumer electronics
Processing and preserving of potatoes
Manufacture of knitted and crocheted hosiery
Manufacture of ceramic tiles and flags
Cold drawing of bars
Manufacture of fibre optic cables
Manufacture of electrical and electronic equipment for motor vehicles
Dismantling of wrecks
Plastering
Wholesale trade of motor vehicle parts and accessories
Wholesale of fruit and vegetables
Urban and suburban passenger land transport
Real estate agencies

Renting and leasing of agricultural machinery and equipment
General secondary education
Raising of dairy cattle
Manufacture of oils and fats
Manufacture of soap and detergents, cleaning and polishing preparations
Manufacture of ceramic household and ornamental articles
Precious metals production
Manufacture of metal forming machinery
Wholesale of textiles
Retail sale of computers, peripheral units and software in specialised stores
Freight transport by road
Post-secondary non-tertiary education
Operation of dairies and cheese making
Manufacture of explosives
Manufacture of cement
Casting of iron
Manufacture of instruments and appliances for measuring, testing and navigation
Manufacture of electric domestic appliances
Wholesale of computers, computer peripheral equipment and software
Retail sale of textiles in specialised stores
Sports and recreation education
Support activities for crop production
Manufacture of grain mill products
Manufacture of concrete products for construction purposes
Treatment and coating of metals
Wholesale of agricultural machinery, equipment and supplies
Retail sale of books in specialised stores
Manufacture of bread; manufacture of fresh pastry goods and cakes
Manufacture of cutlery
Wholesale of solid, liquid and gaseous fuels and related products
Retail sale of clothing in specialised stores
Manufacture of sugar
Retail sale via stalls and markets of food, beverages and tobacco products
Mining of chemical and fertiliser minerals
Manufacture of prepared feeds for farm animals
Manufacture of knitted and crocheted fabrics
Production of abrasive products
Manufacture of steel drums and similar containers
Manufacture of machinery for metallurgy
Manufacture of motorcycles
Manufacture of brooms and brushes
Construction of water projects
Roofing activities
Retail sale via mail order houses or via Internet
News agency activities
Financial leasing
Activities of collection agencies and credit bureaus
Child day-care activities
Activities of religious organisations
Manufacture of wine from grape
Manufacture of kitchen furniture
Computer consultancy activities
Support activities to performing arts
Museums activities
Hairdressing and other beauty treatment
Growing of rice

Freshwater fishing
Operation of gravel and sand pits; mining of clays and kaolin
Processing and preserving of poultry meat
Manufacture of workwear
Manufacture of luggage, handbags and the like, saddlery and harness
Manufacture of paper and paperboard
Other printing
Manufacture of dyes and pigments
Shaping and processing of flat glass
Manufacture of doors and windows of metal
Manufacture of loaded electronic boards
Manufacture of electricity distribution and control apparatus
Manufacture of fluid power equipment
Building of pleasure and sporting boats
Manufacture of jewellery and related articles
Repair of machinery
Transmission of electricity
Collection of hazardous waste
Construction of railways and underground railways
Site preparation
Agents involved in the sale of fuels, ores, metals and industrial chemicals
Publishing of directories and mailing lists
Motion picture, video and television programme post-production activities
Web portals
Non-life insurance
Security and commodity contracts brokerage
Engineering activities and related technical consultancy
Media representation
Renting and leasing of trucks
Tour operator activities
Regulation of the activities of providing health care, education, cultural services and other social services
Activities of sport clubs
Activities of professional membership organisations
Repair of communication equipment
Growing of tropical and subtropical fruits
Freshwater aquaculture
Manufacture of assembled parquet floors
Manufacture of household and sanitary goods and of toilet requisites
Manufacture of plastic packing goods
Manufacture of lifting and handling equipment
Distribution of gaseous fuels through mains
Treatment and disposal of hazardous waste
Construction of utility projects for electricity and telecommunications
Plumbing, heat and air conditioning installation
Wholesale of flowers and plants
Retail sale of meat and meat products in specialised stores
Space transport
Service activities incidental to water transportation
Activities of insurance agents and brokers
Business and other management consultancy activities
Renting of video tapes and disks
Other building and industrial cleaning activities
Defence activities
Specialist medical practice activities
Repair of household appliances and home and garden equipment
Manufacture of fruit and vegetable juice

Manufacture of bricks, tiles and construction products, in baked clay
Cold rolling of narrow strip
Manufacture of other electronic and electric wires and cables
Manufacture of other parts and accessories for motor vehicles
Recovery of sorted materials
Joinery installation
Retail trade of motor vehicle parts and accessories
Wholesale of meat and meat products
Taxi operation
Management of real estate on a fee or contract basis
Renting and leasing of construction and civil engineering machinery and equipment
Technical and vocational secondary education
Raising of other cattle and buffaloes
Manufacture of margarine and similar edible fats
Manufacture of perfumes and toilet preparations
Manufacture of ceramic sanitary fixtures
Aluminium production
Wholesale of clothing and footwear
Retail sale of telecommunications equipment in specialised stores
Removal services
Tertiary education
Manufacture of ice cream
Manufacture of glues
Manufacture of lime and plaster
Casting of steel
Manufacture of watches and clocks
Manufacture of non-electric domestic appliances
Wholesale of electronic and telecommunications equipment and parts
Retail sale of hardware, paints and glass in specialised stores
Cultural education
Support activities for animal production
Manufacture of starches and starch products
Manufacture of plaster products for construction purposes
Machining
Wholesale of machine tools
Retail sale of newspapers and stationery in specialised stores
Manufacture of rusks and biscuits; manufacture of preserved pastry goods and cakes
Manufacture of locks and hinges
Wholesale of metals and metal ores
Retail sale of footwear and leather goods in specialised stores
Manufacture of cocoa, chocolate and sugar confectionery
Retail sale via stalls and markets of textiles, clothing and footwear
Extraction of peat
Manufacture of prepared pet foods
Manufacture of made-up textile articles, except apparel
Manufacture of light metal packaging
Manufacture of machinery for mining, quarrying and construction
Manufacture of bicycles and invalid carriages
Other credit granting
Packaging activities
Activities of political organisations
Manufacture of cider and other fruit wines
Manufacture of mattresses
Computer facilities management activities
Artistic creation
Operation of historical sites and buildings and similar visitor attractions

Funeral and related activities
Growing of vegetables and melons, roots and tubers
Production of meat and poultry meat products
Manufacture of other outerwear
Pre-press and pre-media services
Manufacture of other inorganic basic chemicals
Manufacture of hollow glass
Manufacture of other pumps and compressors
Manufacture of imitation jewellery and related articles
Repair of electronic and optical equipment
Distribution of electricity
Construction of bridges and tunnels
Test drilling and boring
Agents involved in the sale of timber and building materials
Publishing of newspapers
Motion picture, video and television programme distribution activities
Regulation of and contribution to more efficient operation of businesses
Fitness facilities
Growing of citrus fruits
Manufacture of other builders' carpentry and joinery
Manufacture of paper stationery
Manufacture of builders' ware of plastic
Manufacture of office machinery and equipment (except computers and peripheral equipment)
Trade of gas through mains
Wholesale of live animals
Retail sale of fish, crustaceans and molluscs in specialised stores
Service activities incidental to air transportation
Justice and judicial activities
Dental practice activities
Repair of footwear and leather goods
Cold forming or folding
Manufacture of wiring devices
Floor and wall covering
Wholesale of dairy products, eggs and edible oils and fats
Renting and leasing of office machinery and equipment (including computers)
Raising of horses and other equines
Manufacture of ceramic insulators and insulating fittings
Lead, zinc and tin production
Wholesale of electrical household appliances
Retail sale of audio and video equipment in specialised stores
Manufacture of essential oils
Casting of light metals
Retail sale of carpets, rugs, wall and floor coverings in specialised stores
Driving school activities
Post-harvest crop activities
Manufacture of ready-mixed concrete
Wholesale of mining, construction and civil engineering machinery
Retail sale of music and video recordings in specialised stores
Manufacture of macaroni, noodles, couscous and similar farinaceous products
Manufacture of tools
Wholesale of wood, construction materials and sanitary equipment
Dispensing chemist in specialised stores
Processing of tea and coffee
Extraction of salt
Manufacture of carpets and rugs
Manufacture of wire products, chain and springs

Manufacture of machinery for food, beverage and tobacco processing
Manufacture of other non-distilled fermented beverages
Operation of arts facilities
Botanical and zoological gardens and nature reserves activities
Physical well-being activities
Growing of sugar cane
Manufacture of underwear
Binding and related services
Manufacture of other organic basic chemicals
Manufacture of glass fibres
Manufacture of other taps and valves
Repair of electrical equipment
Trade of electricity
Agents involved in the sale of machinery, industrial equipment, ships and aircraft
Publishing of journals and periodicals
Motion picture projection activities
Growing of pome fruits and stone fruits
Manufacture of wooden containers
Manufacture of wallpaper
Manufacture of power-driven hand tools
Wholesale of hides, skins and leather
Retail sale of bread, cakes, flour confectionery and sugar confectionery in specialised stores
Cargo handling
Public order and safety activities
Repair of furniture and home furnishings
Cold drawing of wire
Painting and glazing
Wholesale of beverages
Renting and leasing of water transport equipment
Raising of camels and camelids
Manufacture of other technical ceramic products
Copper production
Wholesale of china and glassware and cleaning materials
Casting of other non-ferrous metals
Retail sale of electrical household appliances in specialised stores
Seed processing for propagation
Manufacture of mortars
Wholesale of machinery for the textile industry and of sewing and knitting machines
Retail sale of sporting equipment in specialised stores
Wholesale of hardware, plumbing and heating equipment and supplies
Retail sale of medical and orthopaedic goods in specialised stores
Manufacture of condiments and seasonings
Manufacture of cordage, rope, twine and netting
Manufacture of fasteners and screw machine products
Manufacture of machinery for textile, apparel and leather production
Manufacture of beer
Growing of tobacco
Manufacture of fertilisers and nitrogen compounds
Manufacture of bearings, gears, gearing and driving elements
Repair and maintenance of ships and boats
Agents involved in the sale of furniture, household goods, hardware and ironmongery
Growing of other tree and bush fruits and nuts
Manufacture of non-domestic cooling and ventilation equipment
Retail sale of beverages in specialised stores
Fire service activities
Repair of watches, clocks and jewellery

Wholesale of tobacco products
Renting and leasing of air transport equipment
Raising of sheep and goats
Other non-ferrous metal production
Wholesale of perfume and cosmetics
Manufacture of fibre cement
Wholesale of office furniture
Retail sale of games and toys in specialised stores
Wholesale of chemical products
Retail sale of cosmetic and toilet articles in specialised stores
Manufacture of prepared meals and dishes
Manufacture of non-wovens and articles made from non-wovens, except apparel
Manufacture of machinery for paper and paperboard production
Manufacture of malt
Growing of fibre crops
Manufacture of plastics in primary forms
Repair and maintenance of aircraft and spacecraft
Agents involved in the sale of textiles, clothing, fur, footwear and leather goods
Growing of oleaginous fruits
Retail sale of tobacco products in specialised stores
Wholesale of sugar and chocolate and sugar confectionery
Raising of swine/pigs
Processing of nuclear fuel
Wholesale of pharmaceutical goods
Wholesale of other office machinery and equipment
Wholesale of other intermediate products
Retail sale of flowers, plants, seeds, fertilisers, pet animals and pet food in specialised stores
Manufacture of homogenised food preparations and dietetic food
Manufacture of other technical and industrial textiles
Manufacture of plastic and rubber machinery
Manufacture of soft drinks; production of mineral waters and other bottled waters
Manufacture of synthetic rubber in primary forms
Repair and maintenance of other transport equipment
Agents involved in the sale of food, beverages and tobacco
Growing of beverage crops
Wholesale of coffee, tea, cocoa and spices
Raising of poultry
Wholesale of furniture, carpets and lighting equipment
Wholesale of waste and scrap
Retail sale of watches and jewellery in specialised stores
Agents specialised in the sale of other particular products
Growing of spices, aromatic, drug and pharmaceutical crops
Wholesale of other food, including fish, crustaceans and molluscs
Wholesale of watches and jewellery
Other retail sale of new goods in specialised stores
Manufacture of other furniture
Other information technology and computer service activities
Other personal service activities n.e.c.
Growing of other non-perennial crops
Manufacture of other wearing apparel and accessories
Manufacture of other rubber products
Manufacture and processing of other glass, including technical glassware
Repair of other equipment
Sale of other motor vehicles
Agents involved in the sale of a variety of goods
Other retail sale in non-specialised stores

Other publishing activities
Other monetary intermediation
Other activities auxiliary to financial services, except insurance and pension funding
Other research and experimental development on natural sciences and engineering
Photocopying, document preparation and other specialised office support activities
Other sports activities
Growing of other perennial crops
Mining of other non-ferrous metal ores
Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials
Manufacture of other articles of paper and paperboard
Manufacture of other plastic products
Manufacture of other tanks, reservoirs and containers of metal
Manufacture of other general-purpose machinery n.e.c.
Other construction installation
Other retail sale of food in specialised stores
Other transportation support activities
Other food service activities
Other software publishing
Other activities auxiliary to insurance and pension funding
Renting and leasing of other personal and household goods
Other cleaning activities
Other amusement and recreation activities
Repair of other personal and household goods
Other processing and preserving of fruit and vegetables
Manufacture of other knitted and crocheted apparel
Other building completion and finishing
Non-specialised wholesale of food, beverages and tobacco
Other passenger land transport n.e.c.
Renting and leasing of other machinery, equipment and tangible goods n.e.c.
Raising of other animals
Manufacture of other ceramic products
Manufacture of other machine tools
Wholesale of other household goods
Manufacture of other chemical products n.e.c.
Retail sale of furniture, lighting equipment and other household articles in specialised stores
Other education n.e.c.
Manufacture of other articles of concrete, plaster and cement
Wholesale of other machinery and equipment
Retail sale of second-hand goods in stores
Manufacture of other food products n.e.c.
Retail sale via stalls and markets of other goods
Other mining and quarrying n.e.c.
Manufacture of other textiles n.e.c.
Manufacture of other non-metallic mineral products n.e.c.
Manufacture of other fabricated metal products n.e.c.
Manufacture of other special-purpose machinery n.e.c.
Manufacture of other transport equipment n.e.c.
Other manufacturing n.e.c.
Construction of other civil engineering projects n.e.c.
Other specialised construction activities n.e.c.
Other retail sale not in stores, stalls or markets
Other information service activities n.e.c.
Other financial service activities, except insurance and pension funding n.e.c.
Other business support service activities n.e.c.
Other social work activities without accommodation n.e.c.
Activities of other membership organisations n.e.c.

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Activity_Group	Activity_SubGroup	Activity_Code
1	NA	a
1	NA	b
1	NA	c
1	NA	d
1	NA	e
1	NA	f
2	c	i
2	c	ii
2	c	iii
2	e	i
2	e	ii
2	NA	a
2	NA	b
2	NA	c
2	NA	d
2	NA	f
3	c	i
3	c	ii
3	c	iii
3	NA	a
3	NA	b
3	NA	d
3	NA	e
3	NA	f
3	NA	g
4	a	i
4	a	ii
4	a	iii
4	a	iv
4	a	ix
4	a	v
4	a	vi
4	a	vii
4	a	viii
4	a	x
4	a	xi
4	b	i
4	b	ii
4	b	iii
4	b	iv
4	b	v
4	NA	a
4	NA	b
4	NA	c
4	NA	d
4	NA	e
4	NA	f
5	NA	a
5	NA	b
5	NA	c
5	NA	d
5	NA	e
5	NA	f

5	NA	g
50	NA	1
6	NA	a
6	NA	b
6	NA	c
7	a	i
7	a	ii
7	a	iii
7	NA	b
8	b	i
8	b	ii
8	NA	a
8	NA	c
9	NA	a
9	NA	b
9	NA	c
9	NA	d
9	NA	e

Activity Name

Mineral oil and gas refineries
Installations for gasification and liquefaction
Thermal power stations and other combustion installations
Coke ovens
Coal rolling mills
Installations for the manufacture of coal products and solid smokeless fuel
Hot-rolling mills
Smitheries with hammers
Application of protective fused metal coats
For the production of non-ferrous crude metals from ore, concentrates or secondary raw materials by r
For the smelting, including the alloying, of non-ferrous metals, including recovered products (refining, r
Metal ore (including sulphide ore) roasting or sintering installations
Installations for the production of pig iron or steel (primary or secondary melting) including continuous
Hot-rolling mills
Smitheries with hammers
Application of protective fused metal coats
Ferrous metal foundries
Installations for surface treatment of metals and plastic materials using an electrolytic or chemical pro
Cement clinker in rotary kilns
Lime in rotary kilns
Cement clinker or lime in other furnaces
Underground mining and related operations
Opencast mining and quarrying
Installations for the production of asbestos and the manufacture of asbestos-based products
Installations for the manufacture of glass, including glass fibre
Installations for melting mineral substances, including the production of mineral fibres
Installations for the manufacture of ceramic products by firing, in particular roofing tiles, bricks, refract
Simple hydrocarbons (linear or cyclic, saturated or unsaturated, aliphatic or aromatic)
Oxygen-containing hydrocarbons such as alcohols, aldehydes, ketones, carboxylic acids, esters, acet
Sulphurous hydrocarbons
Nitrogenous hydrocarbons such as amines, amides, nitrous compounds, nitro compounds or nitrate co
Synthetic rubbers
Phosphorus-containing hydrocarbons
Halogenic hydrocarbons
Organometallic compounds
Basic plastic materials (polymers, synthetic fibres and cellulose-based fibres)
Dyes and pigments
Surface-active agents and surfactants
Gases, such as ammonia, chlorine or hydrogen chloride, fluorine or hydrogen fluoride, carbon oxides, r
Acids, such as chromic acid, hydrofluoric acid, phosphoric acid, nitric acid, hydrochloric acid, sulphuric
Bases, such as ammonium hydroxide, potassium hydroxide, sodium hydroxide
Salts, such as ammonium chloride, potassium chlorate, potassium carbonate, sodium carbonate, per
Non-metals, metal oxides or other inorganic compounds such as calcium carbide, silicon, silicon carbi

Chemical installations for the production on an industrial scale of phosphorous-, nitrogen- or potassiur
Chemical installations for the production on an industrial scale of basic plant health products and of bi
Installations using a chemical or biological process for the production on an industrial scale of basic pl
Installations for the production on an industrial scale of explosives and pyrotechnic products
Installations for the recovery or disposal of hazardous waste
Installations for the incineration of non-hazardous waste in the scope of Directive 2000/76/EC of the E
Installations for the disposal of non-hazardous waste
Landfills
Installations for the disposal or recycling of animal carcasses and animal waste
Urban waste-water treatment plants

Independently operated industrial waste-water treatment plants which serve one or more activities of t
General

Industrial plants for the production of pulp from timber or similar fibrous materials

Industrial plants for the production of paper and board and other primary wood products (such as chip

Industrial plants for the preservation of wood and wood products with chemicals

Installations for the intensive rearing of poultry or pigs (i)

Installations for the intensive rearing of poultry or pigs (ii)

Installations for the intensive rearing of poultry or pigs (iii)

Intensive aquaculture

Animal raw materials (other than milk)

Vegetable raw materials

Slaughterhouses

Treatment and processing of milk

Plants for the pre-treatment (operations such as washing, bleaching, mercerisation) or dyeing of fibres

Plants for the tanning of hides and skins

Installations for surface treatment of substances, objects or products using organic solvents, in particular

Installations for the production of carbon (hard-burnt coal) or electro-graphite by means of incineration

Installations for the building of, and painting or removal of paint from ships

Capacity_Threshold

With a heat input of 50 megawatts (MW)

With a capacity of 1 tonne per hour

With a capacity of 20 tonnes of crude steel per hour per hour

With an energy of 50 kilojoules per hammer, where the calorific power used exceeds 20 MW

With an input of 2 tonnes of crude steel per hour

metallurgical, chemical or electrolytic processes

With a melting capacity of 4 tonnes per day for lead and cadmium or 20 tonnes per day for all other m

With a capacity of 2,5 tonnes per hour

With a production capacity of 20 tonnes per day

Where the volume of the treatment vats equals 30 m³

With a production capacity of 500 tonnes per day

With a production capacity of 50 tonnes per day

With a production capacity of 50 tonnes per day

Where the surface of the area effectively under extractive operation equals 25 hectares

With a melting capacity of 20 tonnes per day

With a melting capacity of 20 tonnes per day

With a production capacity of 75 tonnes per day, or with a kiln capacity of 4 m³ and with a setting dens:

ates, ethers, peroxides, epoxy resins

ompounds, nitriles, cyanates, isocyanates

sulphur compounds, nitrogen oxides, hydrogen, sulphur dioxide, carbonyl chloride
: acid, oleum, sulphurous acids

borate, silver nitrate

de

n-based fertilisers (simple or compound fertilisers)

ocides

pharmaceutical products

Receiving 10 tonnes per day

With a capacity of 3 tonnes per hour

With a capacity of 50 tonnes per day

Receiving 10 tonnes per day or with a total capacity of 25 000 tonnes

With a treatment capacity of 10 tonnes per day

With a capacity of 100 000 population equivalents

With a capacity of 10 000 m³ per day

With a production capacity of 20 tonnes per day

With a production capacity of 50 m³ per day

With 40 000 places for poultry

With 2 000 places for production pigs (over 30 kg)

With 750 places for sows

With a production capacity of 1 000 tonnes of fish or shellfish per year

With a finished product production capacity of 75 tonnes per day

With a finished product production capacity of 300 tonnes per day (average value on a quarterly basis)

With a carcass production capacity of 50 tonnes per day

With a capacity to receive 200 tonnes of milk per day (average value on an annual basis)

With a treatment capacity of 10 tonnes per day

With a treatment capacity of 12 tonnes of finished product per day

With a consumption capacity of 150 kg per hour or 200 tonnes per year

or graphitisation

With a capacity for ships 100 m long

etals

sity per kiln of 300 kg/m³

Emission Type : Air

Category Specific PRTR Pollutants

Pollutant_Number	Pollutant_Name	Pollutant_Lookup
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Remaining PRTR Pollutants

Pollutant_Number	Pollutant_Name	Pollutant_Lookup
55	1,1,1-trichloroethane	55 - 1,1,1-trichloroethane
56	1,1,2,2-tetrachloroethane	56 - 1,1,2,2-tetrachloroethane
44	1,2,3,4,5,6-hexachlorocyclohexane	44 - 1,2,3,4,5,6-hexachlorocyclohexane
34	1,2-dichloroethane (EDC)	34 - 1,2-dichloroethane (EDC)
26	Aldrin	26 - Aldrin
06	Ammonia (NH3)	06 - Ammonia (NH3)
61	Anthracene	61 - Anthracene
17	Arsenic and compounds (as As)	17 - Arsenic and compounds (as As)
81	Asbestos	81 - Asbestos
62	Benzene	62 - Benzene
18	Cadmium and compounds (as Cd)	18 - Cadmium and compounds (as Cd)
03	Carbon dioxide (CO2)	03 - Carbon dioxide (CO2)
02	Carbon monoxide (CO)	02 - Carbon monoxide (CO)
28	Chlordane	28 - Chlordane
29	Chlordecone	29 - Chlordecone
79	Chlorides (as Cl)	79 - Chlorides (as Cl)
80	Chlorine and inorganic compounds	80 - Chlorine and inorganic compounds
15	Chlorofluorocarbons (CFCs)	15 - Chlorofluorocarbons (CFCs)
19	Chromium and compounds (as Cr)	19 - Chromium and compounds (as Cr)
20	Copper and compounds (as Cu)	20 - Copper and compounds (as Cu)
33	DDT	33 - DDT
70	Di-(2-ethyl hexyl) phthalate (DEHP)	70 - Di-(2-ethyl hexyl) phthalate (DEHP)
35	Dichloromethane (DCM)	35 - Dichloromethane (DCM)
36	Dieldrin	36 - Dieldrin
39	Endrin	39 - Endrin
65	Ethyl benzene	65 - Ethyl benzene
66	Ethylene oxide	66 - Ethylene oxide
84	Fluorine and inorganic compounds	84 - Fluorine and inorganic compounds
40	Halogenated organic compounds	40 - Halogenated organic compounds
16	Halons	16 - Halons
41	Heptachlor	41 - Heptachlor
90	Hexabromobiphenyl	90 - Hexabromobiphenyl
42	Hexachlorobenzene (HCB)	42 - Hexachlorobenzene (HCB)
04	Hydro-fluorocarbons (HFCs)	04 - Hydro-fluorocarbons (HFCs)
14	Hydrochlorofluorocarbons (HCFCs)	14 - Hydrochlorofluorocarbons (HCFCs)
85	Hydrogen cyanide (HCN)	85 - Hydrogen cyanide (HCN)
23	Lead and compounds (as Pb)	23 - Lead and compounds (as Pb)
45	Lindane	45 - Lindane
21	Mercury and compounds (as Hg)	21 - Mercury and compounds (as Hg)
01	Methane (CH4)	01 - Methane (CH4)
46	Mirex	46 - Mirex
68	Naphthalene	68 - Naphthalene
22	Nickel and compounds (as Ni)	22 - Nickel and compounds (as Ni)
08	Nitrogen oxides (NOx/NO2)	08 - Nitrogen oxides (NOx/NO2)
05	Nitrous oxide (N2O)	05 - Nitrous oxide (N2O)
07	Non-methane volatile organic compounds	07 - Non-methane volatile organic compounds
86	Particulate matter (PM10)	86 - Particulate matter (PM10)
47	PCDD + PCDF (dioxins + furans)	47 - PCDD + PCDF (dioxins + furans)
48	Pentachlorobenzene	48 - Pentachlorobenzene
49	Pentachlorophenol (PCP)	49 - Pentachlorophenol (PCP)

09	Perfluorocarbons (PFCs)	09 - Perfluorocarbons (PFCs)
71	Phenols (as total C)	71 - Phenols (as total C)
50	Polychlorinated biphenyls (PC	50 - Polychlorinated biphenyls (PC
72	Polycyclic aromatic hydrocarb	72 - Polycyclic aromatic hydrocarb
10	Sulphur hexafluoride (SF6)	10 - Sulphur hexafluoride (SF6)
11	Sulphur oxides (SOx/SO2)	11 - Sulphur oxides (SOx/SO2)
52	Tetrachloroethylene (PER)	52 - Tetrachloroethylene (PER)
53	Tetrachloromethane (TCM)	53 - Tetrachloromethane (TCM)
73	Toluene	73 - Toluene
59	Toxaphene	59 - Toxaphene
54	Trichlorobenzenes (TCBs)(all	54 - Trichlorobenzenes (TCBs)(all
57	Trichloroethylene	57 - Trichloroethylene
58	Trichloromethane	58 - Trichloromethane
60	Vinyl chloride	60 - Vinyl chloride
78	Xylenes	78 - Xylenes
24	Zinc and compounds (as Zn)	24 - Zinc and compounds (as Zn)

Emission Type : Water

Category Specific PRTR Pollutants

Pollutant_Number	Pollutant_Name	Pollutant_Lookup
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Remaining PRTR Pollutants

Pollutant_Number	Pollutant_Name	Pollutant_Lookup
44	1,2,3,4,5,6-hexachlorocyclohe	44 - 1,2,3,4,5,6-hexachlorocyclohe
34	1,2-dichloroethane (EDC)	34 - 1,2-dichloroethane (EDC)
25	Alachlor	25 - Alachlor
26	Aldrin	26 - Aldrin
61	Anthracene	61 - Anthracene
17	Arsenic and compounds (as A	17 - Arsenic and compounds (as /
81	Asbestos	81 - Asbestos
27	Atrazine	27 - Atrazine
62	Benzene	62 - Benzene
91	Benzo(g,h,i)perylene	91 - Benzo(g,h,i)perylene
63	Brominated diphenylethers (PI	63 - Brominated diphenylethers (F
18	Cadmium and compounds (as	18 - Cadmium and compounds (a
28	Chlordane	28 - Chlordane
29	Chlordecone	29 - Chlordecone
30	Chlorfenvinphos	30 - Chlorfenvinphos
79	Chlorides (as Cl)	79 - Chlorides (as Cl)
31	Chloro-alkanes, C10-C13	31 - Chloro-alkanes, C10-C13
32	Chlorpyrifos	32 - Chlorpyrifos
19	Chromium and compounds (a	19 - Chromium and compounds (ε
20	Copper and compounds (as C	20 - Copper and compounds (as C
82	Cyanides (as total CN)	82 - Cyanides (as total CN)
33	DDT	33 - DDT
70	Di-(2-ethyl hexyl) phthalate (D	70 - Di-(2-ethyl hexyl) phthalate (E
35	Dichloromethane (DCM)	35 - Dichloromethane (DCM)
36	Dieldrin	36 - Dieldrin
37	Diuron	37 - Diuron
38	Endosulphan	38 - Endosulphan
39	Endrin	39 - Endrin
65	Ethyl benzene	65 - Ethyl benzene
66	Ethylene oxide	66 - Ethylene oxide
88	Fluoranthene	88 - Fluoranthene
83	Fluorides (as total F)	83 - Fluorides (as total F)
40	Halogenated organic compou	40 - Halogenated organic compou
41	Heptachlor	41 - Heptachlor

90	Hexabromobiphenyl	90 - Hexabromobiphenyl
42	Hexachlorobenzene (HCB)	42 - Hexachlorobenzene (HCB)
43	Hexachlorobutadiene (HCBd)	43 - Hexachlorobutadiene (HCBd)
89	Isodrin	89 - Isodrin
67	Isoproturon	67 - Isoproturon
23	Lead and compounds (as Pb)	23 - Lead and compounds (as Pb)
45	Lindane	45 - Lindane
21	Mercury and compounds (as Hg)	21 - Mercury and compounds (as Hg)
46	Mirex	46 - Mirex
68	Naphthalene	68 - Naphthalene
22	Nickel and compounds (as Ni)	22 - Nickel and compounds (as Ni)
07	Non-methane volatile organic compounds	07 - Non-methane volatile organic compounds
64	Nonylphenol and Nonylphenols	64 - Nonylphenol and Nonylphenols
87	Octylphenols and Octylphenol	87 - Octylphenols and Octylphenol
69	Organotin compounds (as total Sn)	69 - Organotin compounds (as total Sn)
47	PCDD + PCDF (dioxins + furans)	47 - PCDD + PCDF (dioxins + furans)
48	Pentachlorobenzene	48 - Pentachlorobenzene
49	Pentachlorophenol (PCP)	49 - Pentachlorophenol (PCP)
71	Phenols (as total C)	71 - Phenols (as total C)
50	Polychlorinated biphenyls (PCBs)	50 - Polychlorinated biphenyls (PCBs)
72	Polycyclic aromatic hydrocarbons (PAHs)	72 - Polycyclic aromatic hydrocarbons (PAHs)
51	Simazine	51 - Simazine
52	Tetrachloroethylene (PER)	52 - Tetrachloroethylene (PER)
53	Tetrachloromethane (TCM)	53 - Tetrachloromethane (TCM)
73	Toluene	73 - Toluene
12	Total nitrogen	12 - Total nitrogen
76	Total organic carbon (TOC) (as C)	76 - Total organic carbon (TOC) (as C)
13	Total phosphorus	13 - Total phosphorus
59	Toxaphene	59 - Toxaphene
74	Tributyltin and compounds	74 - Tributyltin and compounds
54	Trichlorobenzenes (TCBs)(all isomers)	54 - Trichlorobenzenes (TCBs)(all isomers)
57	Trichloroethylene	57 - Trichloroethylene
58	Trichloromethane	58 - Trichloromethane
77	Trifluralin	77 - Trifluralin
75	Triphenyltin and compounds	75 - Triphenyltin and compounds
60	Vinyl chloride	60 - Vinyl chloride
78	Xylenes	78 - Xylenes
24	Zinc and compounds (as Zn)	24 - Zinc and compounds (as Zn)

Emission Type : Offsite Transfers

PRTR Pollutants

Pollutant_Number	Pollutant_Name	Pollutant_Lookup
55	1,1,1-trichloroethane	55 - 1,1,1-trichloroethane
56	1,1,2,2-tetrachloroethane	56 - 1,1,2,2-tetrachloroethane
44	1,2,3,4,5,6-hexachlorocyclohexane	44 - 1,2,3,4,5,6-hexachlorocyclohexane
34	1,2-dichloroethane (EDC)	34 - 1,2-dichloroethane (EDC)
25	Alachlor	25 - Alachlor
26	Aldrin	26 - Aldrin
06	Ammonia (NH3)	06 - Ammonia (NH3)
61	Anthracene	61 - Anthracene
17	Arsenic and compounds (as As)	17 - Arsenic and compounds (as As)
81	Asbestos	81 - Asbestos
27	Atrazine	27 - Atrazine
62	Benzene	62 - Benzene
91	Benzo(g,h,i)perylene	91 - Benzo(g,h,i)perylene
63	Brominated diphenylethers (PBDEs)	63 - Brominated diphenylethers (PBDEs)
18	Cadmium and compounds (as Cd)	18 - Cadmium and compounds (as Cd)

03	Carbon dioxide (CO ₂)	03 - Carbon dioxide (CO ₂)
02	Carbon monoxide (CO)	02 - Carbon monoxide (CO)
28	Chlordane	28 - Chlordane
29	Chlordecone	29 - Chlordecone
30	Chlorfenvinphos	30 - Chlorfenvinphos
79	Chlorides (as Cl)	79 - Chlorides (as Cl)
80	Chlorine and inorganic compounds	80 - Chlorine and inorganic compounds
31	Chloro-alkanes, C10-C13	31 - Chloro-alkanes, C10-C13
15	Chlorofluorocarbons (CFCs)	15 - Chlorofluorocarbons (CFCs)
32	Chlorpyrifos	32 - Chlorpyrifos
19	Chromium and compounds (as Cr)	19 - Chromium and compounds (as Cr)
20	Copper and compounds (as Cu)	20 - Copper and compounds (as Cu)
82	Cyanides (as total CN)	82 - Cyanides (as total CN)
33	DDT	33 - DDT
70	Di-(2-ethyl hexyl) phthalate (DEHP)	70 - Di-(2-ethyl hexyl) phthalate (DEHP)
35	Dichloromethane (DCM)	35 - Dichloromethane (DCM)
36	Dieldrin	36 - Dieldrin
37	Diuron	37 - Diuron
38	Endosulphan	38 - Endosulphan
39	Endrin	39 - Endrin
65	Ethyl benzene	65 - Ethyl benzene
66	Ethylene oxide	66 - Ethylene oxide
88	Fluoranthene	88 - Fluoranthene
83	Fluorides (as total F)	83 - Fluorides (as total F)
84	Fluorine and inorganic compounds	84 - Fluorine and inorganic compounds
40	Halogenated organic compounds	40 - Halogenated organic compounds
16	Halons	16 - Halons
41	Heptachlor	41 - Heptachlor
90	Hexabromobiphenyl	90 - Hexabromobiphenyl
42	Hexachlorobenzene (HCB)	42 - Hexachlorobenzene (HCB)
43	Hexachlorobutadiene (HCBd)	43 - Hexachlorobutadiene (HCBd)
04	Hydro-fluorocarbons (HFCs)	04 - Hydro-fluorocarbons (HFCs)
14	Hydrochlorofluorocarbons (HCFCs)	14 - Hydrochlorofluorocarbons (HCFCs)
85	Hydrogen cyanide (HCN)	85 - Hydrogen cyanide (HCN)
89	Isodrin	89 - Isodrin
67	Isoproturon	67 - Isoproturon
23	Lead and compounds (as Pb)	23 - Lead and compounds (as Pb)
45	Lindane	45 - Lindane
21	Mercury and compounds (as Hg)	21 - Mercury and compounds (as Hg)
01	Methane (CH ₄)	01 - Methane (CH ₄)
46	Mirex	46 - Mirex
68	Naphthalene	68 - Naphthalene
22	Nickel and compounds (as Ni)	22 - Nickel and compounds (as Ni)
08	Nitrogen oxides (NO _x /NO ₂)	08 - Nitrogen oxides (NO _x /NO ₂)
05	Nitrous oxide (N ₂ O)	05 - Nitrous oxide (N ₂ O)
07	Non-methane volatile organic compounds	07 - Non-methane volatile organic compounds
64	Nonylphenol and Nonylphenols	64 - Nonylphenol and Nonylphenols
87	Octylphenols and Octylphenol	87 - Octylphenols and Octylphenol
69	Organotin compounds (as total Sn)	69 - Organotin compounds (as total Sn)
86	Particulate matter (PM ₁₀)	86 - Particulate matter (PM ₁₀)
47	PCDD + PCDF (dioxins + furans)	47 - PCDD + PCDF (dioxins + furans)
48	Pentachlorobenzene	48 - Pentachlorobenzene
49	Pentachlorophenol (PCP)	49 - Pentachlorophenol (PCP)
09	Perfluorocarbons (PFCs)	09 - Perfluorocarbons (PFCs)
71	Phenols (as total C)	71 - Phenols (as total C)
50	Polychlorinated biphenyls (PCBs)	50 - Polychlorinated biphenyls (PCBs)

72	Polycyclic aromatic hydrocarb	72 - Polycyclic aromatic hydrocart
51	Simazine	51 - Simazine
10	Sulphur hexafluoride (SF6)	10 - Sulphur hexafluoride (SF6)
11	Sulphur oxides (SOx/SO2)	11 - Sulphur oxides (SOx/SO2)
52	Tetrachloroethylene (PER)	52 - Tetrachloroethylene (PER)
53	Tetrachloromethane (TCM)	53 - Tetrachloromethane (TCM)
73	Toluene	73 - Toluene
12	Total nitrogen	12 - Total nitrogen
76	Total organic carbon (TOC) (a	76 - Total organic carbon (TOC) (;
13	Total phosphorus	13 - Total phosphorus
59	Toxaphene	59 - Toxaphene
74	Tributyltin and compounds	74 - Tributyltin and compounds
54	Trichlorobenzenes (TCBs)(all	54 - Trichlorobenzenes (TCBs)(all
57	Trichloroethylene	57 - Trichloroethylene
58	Trichloromethane	58 - Trichloromethane
77	Trifluralin	77 - Trifluralin
75	Triphenyltin and compounds	75 - Triphenyltin and compounds
60	Vinyl chloride	60 - Vinyl chloride
78	Xylenes	78 - Xylenes
24	Zinc and compounds (as Zn)	24 - Zinc and compounds (as Zn)

Emission Type : Land

PRTR Pollutants

Pollutant Number	Pollutant Name	Pollutant Lookup
55	1,1,1-trichloroethane	55 - 1,1,1-trichloroethane
56	1,1,2,2-tetrachloroethane	56 - 1,1,2,2-tetrachloroethane
44	1,2,3,4,5,6-hexachlorocyclohe	44 - 1,2,3,4,5,6-hexachlorocyclohe
34	1,2-dichloroethane (EDC)	34 - 1,2-dichloroethane (EDC)
25	Alachlor	25 - Alachlor
26	Aldrin	26 - Aldrin
06	Ammonia (NH3)	06 - Ammonia (NH3)
61	Anthracene	61 - Anthracene
17	Arsenic and compounds (as A	17 - Arsenic and compounds (as /
81	Asbestos	81 - Asbestos
27	Atrazine	27 - Atrazine
62	Benzene	62 - Benzene
91	Benzo(g,h,i)perylene	91 - Benzo(g,h,i)perylene
63	Brominated diphenylethers (PI	63 - Brominated diphenylethers (F
18	Cadmium and compounds (as	18 - Cadmium and compounds (a
03	Carbon dioxide (CO2)	03 - Carbon dioxide (CO2)
02	Carbon monoxide (CO)	02 - Carbon monoxide (CO)
28	Chlordane	28 - Chlordane
29	Chlordecone	29 - Chlordecone
30	Chlorfenvinphos	30 - Chlorfenvinphos
79	Chlorides (as Cl)	79 - Chlorides (as Cl)
80	Chlorine and inorganic compo	80 - Chlorine and inorganic compo
31	Chloro-alkanes, C10-C13	31 - Chloro-alkanes, C10-C13
15	Chlorofluorocarbons (CFCs)	15 - Chlorofluorocarbons (CFCs)
32	Chlorpyrifos	32 - Chlorpyrifos
19	Chromium and compounds (a	19 - Chromium and compounds (;
20	Copper and compounds (as C	20 - Copper and compounds (as C
82	Cyanides (as total CN)	82 - Cyanides (as total CN)
33	DDT	33 - DDT
70	Di-(2-ethyl hexyl) phthalate (D	70 - Di-(2-ethyl hexyl) phthalate (E
35	Dichloromethane (DCM)	35 - Dichloromethane (DCM)
36	Dieldrin	36 - Dieldrin
37	Diuron	37 - Diuron

38	Endosulphan	38 - Endosulphan
39	Endrin	39 - Endrin
65	Ethyl benzene	65 - Ethyl benzene
66	Ethylene oxide	66 - Ethylene oxide
88	Fluoranthene	88 - Fluoranthene
83	Fluorides (as total F)	83 - Fluorides (as total F)
84	Fluorine and inorganic compo	84 - Fluorine and inorganic compo
40	Halogenated organic compou	40 - Halogenated organic compou
16	Halons	16 - Halons
41	Heptachlor	41 - Heptachlor
90	Hexabromobiphenyl	90 - Hexabromobiphenyl
42	Hexachlorobenzene (HCB)	42 - Hexachlorobenzene (HCB)
43	Hexachlorobutadiene (HCB	43 - Hexachlorobutadiene (HCB
04	Hydro-fluorocarbons (HFCs)	04 - Hydro-fluorocarbons (HFCs)
14	Hydrochlorofluorocarbons (HC	14 - Hydrochlorofluorocarbons (HC
85	Hydrogen cyanide (HCN)	85 - Hydrogen cyanide (HCN)
89	Isodrin	89 - Isodrin
67	Isoproturon	67 - Isoproturon
23	Lead and compounds (as Pb)	23 - Lead and compounds (as Pb)
45	Lindane	45 - Lindane
21	Mercury and compounds (as H	21 - Mercury and compounds (as H
01	Methane (CH4)	01 - Methane (CH4)
46	Mirex	46 - Mirex
68	Naphthalene	68 - Naphthalene
22	Nickel and compounds (as Ni)	22 - Nickel and compounds (as Ni)
08	Nitrogen oxides (NOx/NO2)	08 - Nitrogen oxides (NOx/NO2)
05	Nitrous oxide (N2O)	05 - Nitrous oxide (N2O)
07	Non-methane volatile organic	07 - Non-methane volatile organic
64	Nonylphenol and Nonylphenol	64 - Nonylphenol and Nonylpheno
87	Octylphenols and Octylphenol	87 - Octylphenols and Octylpheno
69	Organotin compounds (as tota	69 - Organotin compounds (as tota
86	Particulate matter (PM10)	86 - Particulate matter (PM10)
47	PCDD + PCDF (dioxins + fura	47 - PCDD + PCDF (dioxins + fura
48	Pentachlorobenzene	48 - Pentachlorobenzene
49	Pentachlorophenol (PCP)	49 - Pentachlorophenol (PCP)
09	Perfluorocarbons (PFCs)	09 - Perfluorocarbons (PFCs)
71	Phenols (as total C)	71 - Phenols (as total C)
50	Polychlorinated biphenyls (PC	50 - Polychlorinated biphenyls (PC
72	Polycyclic aromatic hydrocarb	72 - Polycyclic aromatic hydrocarb
51	Simazine	51 - Simazine
10	Sulphur hexafluoride (SF6)	10 - Sulphur hexafluoride (SF6)
11	Sulphur oxides (SOx/SO2)	11 - Sulphur oxides (SOx/SO2)
52	Tetrachloroethylene (PER)	52 - Tetrachloroethylene (PER)
53	Tetrachloromethane (TCM)	53 - Tetrachloromethane (TCM)
73	Toluene	73 - Toluene
12	Total nitrogen	12 - Total nitrogen
76	Total organic carbon (TOC) (a	76 - Total organic carbon (TOC) (;
13	Total phosphorus	13 - Total phosphorus
59	Toxaphene	59 - Toxaphene
74	Tributyltin and compounds	74 - Tributyltin and compounds
54	Trichlorobenzenes (TCBs)(all	54 - Trichlorobenzenes (TCBs)(all
57	Trichloroethylene	57 - Trichloroethylene
58	Trichloromethane	58 - Trichloromethane
77	Trifluralin	77 - Trifluralin
75	Triphenyltin and compounds	75 - Triphenyltin and compounds
60	Vinyl chloride	60 - Vinyl chloride

78
24

Xylenes
Zinc and compounds (as Zn)

78 - Xylenes
24 - Zinc and compounds (as Zn)

Air Lookup

From Row A 4
To Row A 4
Start Cell A 3
From Row B 7
To Row B 72
Start Cell B 6

Water Lookup

From Row A 76
To Row A 76
Start Cell A 75
From Row B 79
To Row B 150
Start Cell B 78

Offsite Xfers Lookup

From Row 154
To Row 244
Start Cell 153

Land Lookup

From Row 248
To Row 338
Start Cell 247

Cu)

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ounds (as HF)
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ions (PAHs)

as total C or COD/3)

l isomers)

Licensed (Non-PRTR) Pollutants

Emission Type : Air

Pollutant Number	Pollutant Name	Pollutant Lookup
201	1,2 trichloroethylene	201 - 1,2 trichloroethylene
241	2-Chloroethanol	241 - 2-Chloroethanol
202	2-methoxyethanol	202 - 2-methoxyethanol
301	Acetate	301 - Acetate
203	Acetic acid	203 - Acetic acid
247	Acetone	247 - Acetone
361	Acrylates	361 - Acrylates
369	Alkyl Phenol Ethoxyla	369 - Alkyl Phenol Etho
355	Aluminium	355 - Aluminium
205	Antimony (as Sb)	205 - Antimony (as Sb)
206	Benzene & toluene &	206 - Benzene & toluen
243	cis-1,2-dichloroethene	243 - cis-1,2-dichloroethene
207	Class B organics	207 - Class B organics
356	Cobalt	356 - Cobalt
208	Condenseable volatile	208 - Condenseable vo
310	Dimethylester	310 - Dimethylester
209	Dimethylformamide	209 - Dimethylformamide
245	Dimethylsulphate	245 - Dimethylsulphate
210	Dust	210 - Dust
211	Epichlorohydrin	211 - Epichlorohydrin
248	Ethanol	248 - Ethanol
212	Formaldehyde	212 - Formaldehyde
315	Formaldehyde	315 - Formaldehyde
213	Formic acid	213 - Formic acid
316	Hydrazine	316 - Hydrazine
214	Hydrogen bromide	214 - Hydrogen bromide
317	Hydrogen peroxide	317 - Hydrogen peroxide
215	Hydrogen sulphide	215 - Hydrogen sulphide
318	Hydrogen sulphide	318 - Hydrogen sulphide
216	Indicator Microorganism	216 - Indicator Microorganisms
319	Inorganic acids	319 - Inorganic acids
217	Iodinated compounds	217 - Iodinated compounds
357	Iron	357 - Iron
218	Isocyanate	218 - Isocyanate
246	Isopropyl Alcohol (IPA)	246 - Isopropyl Alcohol (IPA)
320	Magnesium	320 - Magnesium
321	Manganese (as Mn)	321 - Manganese (as Mn)
219	MDI	219 - MDI
322	MDI as NCO group	322 - MDI as NCO group
220	Mercaptans	220 - Mercaptans
323	Methanol	323 - Methanol
367	Methyl Methacrylate	367 - Methyl Methacrylate
368	Molybdenum	368 - Molybdenum
325	Monochloramine	325 - Monochloramine
326	n-hexene	326 - n-hexene
221	Nitric acid (HNO3)	221 - Nitric acid (HNO3)
330	Organic solvents	330 - Organic solvents
222	Organic substances with photochemical ozone	222 - Organic substances with photochemical ozone
331	Organohalogens	331 - Organohalogens
223	Ozone	223 - Ozone
333	Permethrin	333 - Permethrin
334	Pesticides	334 - Pesticides
337	Pharmaceutical active	337 - Pharmaceutical actives

Air Lookup

From Row	4
To Row	89
Start Cell	3

Water Lookup

From Row	92
To Row	192
Start Cell	91

Offsite Xfers Lookup

From Row	195
To Row	276
Start Cell	194

Land Lookup

From Row	279
To Row	279
Start Cell	278

338	Potassium	338 - Potassium
339	Preventol WB	339 - Preventol WB
370	Selenium	370 - Selenium
340	Semi-volatiles	340 - Semi-volatiles
354	Silver	354 - Silver
341	Sodium	341 - Sodium
342	Streptomycin	342 - Streptomycin
353	Sulphides	353 - Sulphides
239	Sulphuric Acid	239 - Sulphuric Acid
344	TA luft carcinogenic s	344 - TA luft carcinogenic substance class 3
224	TA Luft carcinogenic s	224 - TA Luft carcinogenic substances Class 1
225	TA Luft carcinogenic s	225 - TA Luft carcinogenic substances Class 2
226	TA Luft carcinogenic s	226 - TA Luft carcinogenic substances Class 3
227	TA Luft inorganic dust	227 - TA Luft inorganic dust particles class 1
228	TA Luft inorganic dust	228 - TA Luft inorganic dust particles class 2
229	TA Luft inorganic dust	229 - TA Luft inorganic dust particles class 3
230	TA Luft organic subst	230 - TA Luft organic substances class 1
231	TA Luft organic subst	231 - TA Luft organic substances class 2
232	TA Luft organic subst	232 - TA Luft organic substances class 3
371	Tellurium	371 - Tellurium
233	Thallium compounds	233 - Thallium compounds
358	Tin	358 - Tin
234	Toluene di-isocyanate	234 - Toluene di-isocyanate
235	Total acids	235 - Total acids
345	Total acids	345 - Total acids
242	Total Aldehydes (as C	242 - Total Aldehydes (as C
347	Total heavy metals	347 - Total heavy metals
351	Total Organic Carbon	351 - Total Organic Carbon (as C)
352	Total Organic Carbon	352 - Total Organic Carbon (as Toluene)
244	Total Particulates	244 - Total Particulates
350	Undenatured botulinu	350 - Undenatured botulinum toxin
236	Vanadium (as V)	236 - Vanadium (as V)
237	Volatile organic comp	237 - Volatile organic compounds (as TOC)

Emission Type : Water

Pollutant_Number	Pollutant_Name	Pollutant_Lookup
380	2,4 Dichlorophenol (2,	380 - 2,4 Dichlorophenol (2,4 D)
394	2,6-Dichlorobenzamid	394 - 2,6-Dichlorobenzamide
301	Acetate	301 - Acetate
203	Acetic acid	203 - Acetic acid
376	Acetone	376 - Acetone
378	Acetronitrile	378 - Acetronitrile
361	Acrylates	361 - Acrylates
369	Alkyl Phenol Ethoxyla	369 - Alkyl Phenol Ethoxylates
355	Aluminium	355 - Aluminium
204	Amines	204 - Amines
238	Ammonia (as N)	238 - Ammonia (as N)
205	Antimony (as Sb)	205 - Antimony (as Sb)
373	Barium	373 - Barium
206	Benzene & toluene &	206 - Benzene & toluene & xylene (combined)
389	Benzo[a]pyrene	389 - Benzo[a]pyrene
390	Benzo[b]fluoranthene	390 - Benzo[b]fluoranthene
391	Benzo[k]fluoranthene	391 - Benzo[k]fluoranthene
302	Biocides	302 - Biocides
303	BOD	303 - BOD
374	Boron	374 - Boron
304	Bromide	304 - Bromide

305	Calcium	305 - Calcium
393	Carbon tetrachloride	393 - Carbon tetrachloride
243	cis-1,2-dichloroethene	243 - cis-1,2-dichloroethene
356	Cobalt	356 - Cobalt
306	COD	306 - COD
208	Condenseable volatile	208 - Condenseable volatile organic compounds
308	Detergents (as MBAS	308 - Detergents (as MBAS)
388	Dichlobenil	388 - Dichlobenil
381	Dichlorobenil	381 - Dichlorobenil
395	Dicofol	395 - Dicofol
309	Diesel range organics	309 - Diesel range organics
310	Dimethylester	310 - Dimethylester
245	Dimethylsulphate	245 - Dimethylsulphate
211	Epichlorohydrin	211 - Epichlorohydrin
377	Ethanol	377 - Ethanol
314	Fats, Oils and Grease	314 - Fats, Oils and Greases
212	Formaldehyde	212 - Formaldehyde
315	Formaldehyde	315 - Formaldehyde
213	Formic acid	213 - Formic acid
382	Glyphosate	382 - Glyphosate
396	Hexabromocyclodeca	396 - Hexabromocyclodecane (HBCD)
316	Hydrazine	316 - Hydrazine
366	Hydrocarbons	366 - Hydrocarbons
214	Hydrogen bromide	214 - Hydrogen bromide
317	Hydrogen peroxide	317 - Hydrogen peroxide
318	Hydrogen sulphide	318 - Hydrogen sulphide
392	Indeno[1,2,3-c,d]pyre	392 - Indeno[1,2,3-c,d]pyrene
319	Inorganic acids	319 - Inorganic acids
357	Iron	357 - Iron
375	Isopropyl Alcohol (IPA	375 - Isopropyl Alcohol (IPA)
362	Kjeldahl Nitrogen	362 - Kjeldahl Nitrogen
383	Linuron	383 - Linuron
320	Magnesium	320 - Magnesium
321	Manganese (as Mn)	321 - Manganese (as Mn)
384	MCPA	384 - MCPA
322	MDI as NCO group	322 - MDI as NCO group
385	Mecoprop Total	385 - Mecoprop Total
323	Methanol	323 - Methanol
367	Methyl Methacrylate	367 - Methyl Methacrylate
324	Mineral oils	324 - Mineral oils
368	Molybdenum	368 - Molybdenum
325	Monochloramine	325 - Monochloramine
326	n-hexene	326 - n-hexene
327	Nitrate (as N)	327 - Nitrate (as N)
372	Nitrite (as N)	372 - Nitrite (as N)
328	Non-purgeable organi	328 - Non-purgeable organic compounds
329	Octafluoropentanol	329 - Octafluoropentanol
330	Organic solvents	330 - Organic solvents
331	Organohalogens	331 - Organohalogens
387	Ortho-phosphate (as |	387 - Ortho-phosphate (as P)
332	Ortho-phosphate (as |	332 - Ortho-phosphate (as PO4)
333	Permethrin	333 - Permethrin
334	Pesticides	334 - Pesticides
335	Petrol range organics	335 - Petrol range organics
397	PFOS	397 - PFOS
337	Pharmaceutical active	337 - Pharmaceutical actives

338	Potassium	338 - Potassium
339	Preventol WB	339 - Preventol WB
370	Selenium	370 - Selenium
340	Semi-volatiles	340 - Semi-volatiles
354	Silver	354 - Silver
341	Sodium	341 - Sodium
342	Streptomycin	342 - Streptomycin
343	Sulphate	343 - Sulphate
353	Sulphides	353 - Sulphides
364	Sulphites (as SO3)	364 - Sulphites (as SO3)
240	Suspended Solids	240 - Suspended Solids
371	Tellurium	371 - Tellurium
358	Tin	358 - Tin
345	Total acids	345 - Total acids
363	Total Dissolved Solids	363 - Total Dissolved Solids
398	Total Hardness (mg/l	398 - Total Hardness (mg/l CaCO3)
347	Total heavy metals	347 - Total heavy metals
351	Total Organic Carbon	351 - Total Organic Carbon (as C)
352	Total Organic Carbon	352 - Total Organic Carbon (as Toluene)
379	Total Oxidised Nitrogen	379 - Total Oxidised Nitrogen (TON)
348	Total petroleum hydroc	348 - Total petroleum hydrocarbons
350	Undenatured botulinu	350 - Undenatured botulinum toxin
386	Vanadium	386 - Vanadium
237	Volatile organic comp	237 - Volatile organic compounds (as TOC)

Emission Type : Offsite Transfers

Pollutant_Number	Pollutant_Name	Pollutant_Lookup
301	Acetate	301 - Acetate
203	Acetic acid	203 - Acetic acid
376	Acetone	376 - Acetone
378	Acetronitrile	378 - Acetronitrile
361	Acrylates	361 - Acrylates
369	Alkyl Phenol Ethoxyla	369 - Alkyl Phenol Ethoxylates
355	Aluminium	355 - Aluminium
204	Amines	204 - Amines
238	Ammonia (as N)	238 - Ammonia (as N)
205	Antimony (as Sb)	205 - Antimony (as Sb)
373	Barium	373 - Barium
206	Benzene & toluene &	206 - Benzene & toluene & xylene (combined)
302	Biocides	302 - Biocides
303	BOD	303 - BOD
374	Boron	374 - Boron
304	Bromide	304 - Bromide
305	Calcium	305 - Calcium
356	Cobalt	356 - Cobalt
306	COD	306 - COD
208	Condenseable volatile	208 - Condenseable volatile organic compounds
308	Detergents (as MBAS	308 - Detergents (as MBAS)
309	Diesel range organics	309 - Diesel range organics
310	Dimethylester	310 - Dimethylester
245	Dimethylsulphate	245 - Dimethylsulphate
211	Epichlorohydrin	211 - Epichlorohydrin
377	Ethanol	377 - Ethanol
314	Fats, Oils and Grease	314 - Fats, Oils and Greases
212	Formaldehyde	212 - Formaldehyde
315	Formaldehyde	315 - Formaldehyde
213	Formic acid	213 - Formic acid

316	Hydrazine	316 - Hydrazine
366	Hydrocarbons	366 - Hydrocarbons
214	Hydrogen bromide	214 - Hydrogen bromide
317	Hydrogen peroxide	317 - Hydrogen peroxide
318	Hydrogen sulphide	318 - Hydrogen sulphide
319	Inorganic acids	319 - Inorganic acids
357	Iron	357 - Iron
375	Isopropyl Alcohol (IPA)	375 - Isopropyl Alcohol (IPA)
362	Kjeldahl Nitrogen	362 - Kjeldahl Nitrogen
320	Magnesium	320 - Magnesium
321	Manganese (as Mn)	321 - Manganese (as Mn)
322	MDI as NCO group	322 - MDI as NCO group
323	Methanol	323 - Methanol
367	Methyl Methacrylate	367 - Methyl Methacrylate
324	Mineral oils	324 - Mineral oils
368	Molybdenum	368 - Molybdenum
325	Monochloramine	325 - Monochloramine
326	n-hexene	326 - n-hexene
327	Nitrate (as N)	327 - Nitrate (as N)
372	Nitrite (as N)	372 - Nitrite (as N)
328	Non-purgeable organics	328 - Non-purgeable organic compounds
329	Octafluoropentanol	329 - Octafluoropentanol
330	Organic solvents	330 - Organic solvents
331	Organohalogenes	331 - Organohalogenes
387	Ortho-phosphate (as P)	387 - Ortho-phosphate (as P)
332	Ortho-phosphate (as PO4)	332 - Ortho-phosphate (as PO4)
333	Permethrin	333 - Permethrin
334	Pesticides	334 - Pesticides
335	Petrol range organics	335 - Petrol range organics
337	Pharmaceutical actives	337 - Pharmaceutical actives
338	Potassium	338 - Potassium
339	Preventol WB	339 - Preventol WB
370	Selenium	370 - Selenium
340	Semi-volatiles	340 - Semi-volatiles
354	Silver	354 - Silver
341	Sodium	341 - Sodium
342	Streptomycin	342 - Streptomycin
343	Sulphate	343 - Sulphate
353	Sulphides	353 - Sulphides
364	Sulphites (as SO3)	364 - Sulphites (as SO3)
240	Suspended Solids	240 - Suspended Solids
371	Tellurium	371 - Tellurium
358	Tin	358 - Tin
345	Total acids	345 - Total acids
363	Total Dissolved Solids	363 - Total Dissolved Solids
398	Total Hardness (mg/l CaCO3)	398 - Total Hardness (mg/l CaCO3)
347	Total heavy metals	347 - Total heavy metals
351	Total Organic Carbon (as C)	351 - Total Organic Carbon (as C)
352	Total Organic Carbon (as Toluene)	352 - Total Organic Carbon (as Toluene)
348	Total petroleum hydrocarbons	348 - Total petroleum hydrocarbons
350	Undenatured botulinum toxin	350 - Undenatured botulinum toxin
237	Volatile organic compounds (as TOC)	237 - Volatile organic compounds (as TOC)

Emission Type : Land

Pollutant_Number	Pollutant_Name	Pollutant_Lookup
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potential

GroupCode	Description
01	WASTE RESULTING FROM EXPLOR/
02	WASTES FROM AGRICULTURE, HOF
03	WASTES FROM WOOD PROCESSING
04	WASTES FROM THE LEATHER, FUR
05	WASTES FROM PETROLEUM REFINI
06	WASTES FROM INORGANIC CHEMIC
07	WASTES FROM ORGANIC CHEMICAL
08	WASTES FORM THE MANUFACTURE
09	WASTES FROM THE PHOTOGRAPHI
10	WASTES FROM THERMAL PROCESSE
11	WASTES FROM CHEMICAL SURFACI
12	WASTES FROM SHAPING AND PHYS
13	OIL WASTES AND WASTES OF LIQUI
14	WASTE ORGANIC SOLVENTS, REFR
15	WASTE PACKAGING; ABSORBENTS,
16	WASTES NOT OTHERWISE SPECIFIE
17	CONSTRUCTION AND DEMOLITION \
18	WASTES FROM HUMAN OR ANIMAL
19	WASTES FROM WASTE MANAGEME
20	MUNICIPAL WASTES (HOUSEHOLD \

GroupCode	SubGroupCode	Description
01	01	wastes from mine
01	03	wastes from phys
01	04	wastes from phys
01	05	drilling muds and
02	01	wastes from agric
02	02	wastes from the p
02	03	wastes from fruit,
02	04	wastes from suga
02	05	wastes from the d
02	06	wastes from the b
02	07	wastes from the p
03	01	wastes from wood
03	02	wastes from wood
03	03	wastes from pulp,
04	01	wastes from the le
04	02	wastes from the tr
05	01	wastes from petrc
05	06	waste from the py
05	07	waste from natura
06	01	wastes from the n
06	02	wastes from the M
06	03	wastes from the M
06	04	metal-containing \
06	05	sludges from on-s
06	06	wastes from the M
06	07	wastes from the M
06	08	wastes from the M
06	09	wastes from the M
06	10	wastes from the M
06	11	wastes from the n
06	13	wastes from inorg
07	01	wastes from the n
07	02	wastes from the M
07	03	wastes from the M

07	04	wastes from the M
07	05	wastes from the M
07	06	wastes from the M
07	07	wastes from the M
08	01	wastes from MFS
08	02	wastes from MFS
08	03	wastes from MFS
08	04	wastes from MFS
08	05	wastes not otherw
09	01	wastes for the pho
10	01	wastes from powe
10	02	wastes from the ir
10	03	wastes from alum
10	04	wastes from lead
10	05	wastes from zinc
10	06	wastes from copp
10	07	wastes from silve
10	08	wastes from other
10	09	wastes from casti
10	10	wastes from casti
10	11	wastes from mani
10	12	wastes from mani
10	13	wastes from mani
10	14	waste from crema
11	01	wastes from chen
11	02	waste from non-fe
11	03	sludges and solid
11	05	wastes from hot g
12	01	wastes from shap
12	03	wastes from wate
13	01	waste hydraulic oi
13	02	waste engine, gea
13	03	waste insulating a
13	04	bilge oils
13	05	oil/water separato
13	07	wastes of liquid fu
13	08	oil wastes not oth
14	06	waste organic sol
15	01	packaging (includ
15	02	absorbents, filter
16	01	end-of-life vehicle
16	02	wastes from elect
16	03	off-specification b
16	04	waste explosives
16	05	gases in pressure
16	06	batteries and acci
16	07	wastes from trans
16	08	spent catalysts
16	09	oxidising substan
16	10	aqueous liquid wa
16	11	waste linings and
17	01	concrete, bricks, t
17	02	wood, glass and p
17	03	bituminous mixtur
17	04	metals (including
17	05	soil (including exc

17	06	insulation materia
17	08	gypsum-based co
17	09	other constructio
18	01	wastes from natal
18	02	wastes from rese
19	01	wastes from incin
19	02	wastes from phys
19	03	stabilised/solidifie
19	04	vitrified waste anc
19	05	wastes from aerol
19	06	wastes from anae
19	07	landfill leachate
19	08	wastes from wast
19	09	wastes from the p
19	10	wastes from shre
19	11	wastes from oil re
19	12	wastes from the n
19	13	wastes from soil &
20	01	separately collect
20	02	garden and park v
20	03	other municipal w
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EXCAVATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
 HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND
 PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
 AND TEXTILE INDUSTRIES
 NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL
 CHEMICAL PROCESSES
 ORGANIC CHEMICAL PROCESSES
 MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS
 COATINGS) IN THE GLASS AND CERAMIC INDUSTRY
 METALLURGY
 ELECTROLYTIC TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY
 CHEMICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
 LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
 EXPLOSIVES AND PROPELLANTS (except 07 and 08)
 WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECI-
 FICALLY LISTED
 HAZARDOUS WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
 HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from
 LABORATORY FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF VITREOUS
 COATINGS AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SOLID, LIQUID AND GASEOUS WASTES

06 01 01 mineral excavation
 06 01 02 physical and chemical processing of metalliferous minerals
 06 01 03 physical and chemical processing of non-metalliferous minerals
 06 01 04 other drilling wastes
 06 01 05 horticulture, horticulure, aquaculture, forestry, hunting and fishing
 06 01 06 preparation and processing of meat, fish and other foods of animal origin
 06 01 07 preparation of vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve
 06 01 08 leather and fur processing
 06 01 09 dairy products industry
 06 01 10 confectionery industry
 06 01 11 production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
 06 01 12 panel processing and the production of panels and furniture
 06 01 13 food preservation
 06 01 14 paper and cardboard production and processing
 06 01 15 leather and fur industry
 06 01 16 textile industry
 06 01 17 petroleum refining
 06 01 18 pyrolytic treatment of coal
 06 01 19 natural gas purification and transportation
 06 02 01 manufacture, formulation, supply and use (MFSU) of acids
 06 02 02 MFSU of bases
 06 02 03 MFSU of salts and their solutions and metallic oxides
 06 02 04 hazardous wastes other than those mentioned in 06 03
 06 02 05 site effluent treatment
 06 02 06 MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
 06 02 07 MFSU of halogens and halogen chemical processes
 06 02 08 MFSU of silicon and silicon derivatives
 06 02 09 MFSU of phosphorus chemicals and phosphorous chemical processes
 06 02 10 MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture
 06 02 11 manufacture of inorganic pigments and opacifiers
 06 02 12 organic chemical processes not otherwise specified
 06 02 13 manufacture, formulation, supply and use (MFSU) of basic organic chemicals
 06 02 14 MFSU of plastics, synthetic rubber and man-made fibres
 06 02 15 MFSU of organic dyes and pigments (except 06 11)

Waste of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 02 01 08 and 02 01 09), wood preserving agents (except 02 01 08 and 02 01 09)

Waste of pharmaceuticals

Waste of fats, grease, soaps, detergents, disinfectants and cosmetics

Waste of fine chemicals and chemical products not otherwise specified

Removal of paint and varnish

Removal of other coatings (including ceramic materials)

Removal of printing inks

Removal of adhesives and sealants (including waterproofing products)

Waste otherwise specified in 08

Waste of photographic industry

Waste of power stations and other combustion plants (except 19)

Waste of iron and steel industry

Waste of aluminium thermal metallurgy

Waste of thermal metallurgy

Waste of thermal metallurgy

Waste of other thermal metallurgy

Waste of copper, gold and platinum thermal metallurgy

Waste of other non-ferrous thermal metallurgy

Removal of ferrous pieces

Removal of non-ferrous pieces

Manufacture of glass and glass products

Manufacture of ceramic goods, bricks, tiles and construction products

Manufacture of cement, lime and plaster and articles and products made from them

Waste of metal treatment

Waste of chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc plating, electroplating, electrolytic processes, electrolytic hydrometallurgical processes, electrolytic processes from tempering processes, electrolytic galvanising processes, electrolytic anodising processes, electrolytic pickling and physical and mechanical surface treatment of metals and plastics, electrolytic pickling and steam degreasing processes (except 11))

Waste of oils

Waste of mineral and lubricating oils

Waste of mineral and heat transmission oils

Waste of other contents

Waste of other materials

Waste otherwise specified

Waste of gases, refrigerants and foam/aerosol propellants

Waste of separately collected municipal packaging waste

Waste of materials, wiping cloths and protective clothing

Waste of vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles

Waste of electrical and electronic equipment

Waste of machines and unused products

Waste of containers and discarded chemicals

Waste of simulators

Waste of transport tank, storage tank and barrel cleaning (except 05 and 13)

Waste of other contents

Waste of sludges destined for off-site treatment

Waste of refractories

Waste of tiles and ceramics

Waste of plastic

Waste of pitch, coal tar and tarred products

Waste of other metals (except their alloys)

Waste of excavated soil from contaminated sites, stones and dredging spoil

ls and asbestos-containing construction materials
nstruction material
and demolition waste
l care, diagnosis, treatment or prevention of disease in humans
arch, diagnosis, treatment or prevention of disease involving animals
eration or pyrolysis of waste
ico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
d wastes (19)
l wastes from vitrification
bic treatment of solid wastes
robic treatment of waste

e water treatment plants not otherwise specified
reparation of water intended for human consumption or water for industrial use
dding of metal-containing wastes
:generation
nechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise sp
and groundwater remediation
ed fractions (except 15 01)
wastes (including cemetery waste)
astes

Description

wastes from mineral metalliferous excavation
wastes from mineral non-metalliferous excavation
acid-generating tailings from processing of sulphide ore
other tailings containing dangerous substances
tailings other than those mentioned in 01 03 04 and 01 03 05
other wastes containing dangerous substances from physical and chemical processing of metalliferou
dusty and powdery wastes other than those mentioned in 01 03 07
red mud from alumina production other than the wastes mentioned in 01 03 07
wastes not otherwise specified
waste containing dangerous substances from physical and chemical processing of nonmetalliferous n
waste gravel and crushed rocks other than those mentioned in 01 04 07
waste sand and clays
dusty and powdery wastes other than those mentioned in 01 04 07
wastes from potash and rock salt processing other than those mentioned in 01 04 07
tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04
waste from stone cutting and sawing other than those mentioned in 01 04 07
waste not otherwise specified
freshwater drilling muds and wastes
oil-containing drilling muds and wastes
drilling muds and other drilling wastes containing dangerous substances
barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 0105 06
chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
wastes not otherwise specified
sludges from washing and cleaning
animal-tissue waste
plant-tissue waste
waste plastics (except packaging)
animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated c
waste from forestry
agrochemical waste containing dangerous substances
agrochemical waste other than those mentioned in 02 01 08
waste metal
wastes not otherwise specified
sludges from washing and cleaning

animal-tissue waste
materials unsuitable for consumption or processing
sludges from on-site effluent treatment
waste not otherwise specified
sludges from washing, cleaning, peeling, centrifuging and separation
waste from preserving agents
wastes from solvent extraction
materials unsuitable for consumption or processing
sludges from on-site effluent treatment
wastes not otherwise specified
soil from cleaning and washing beet
off-specification calcium carbonate
sludges from on-site effluent treatment
wastes not otherwise specified
materials unsuitable for consumption or processing
sludges from on-site effluent treatment
wastes not otherwise specified
materials unsuitable for consumption or processing
wastes from preserving agents
sludges from on-site effluent treatment
waste not otherwise specified
wastes from washing, cleaning and mechanical reduction of raw materials
wastes from spirits distillation
wastes from chemical treatment
materials unsuitable for consumption or processing
sludges from on-site effluent treatment
waste not otherwise specified
waste bark and cork
sawdust, shavings, cuttings, wood, particle board and veneer containing dangerous substances
sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
wastes not otherwise specified
non-halogenated organic wood preservatives
organochlorinated wood preservatives
organometallic wood preservatives
inorganic wood preservatives
other wood preservatives containing dangerous substances
wood preservatives not otherwise specified
waste bark and wood
green liquor sludge (from recovery of cooking liquor)
de-inking sludges from paper recycling
mechanically separated rejects from pulping of waste paper and cardboard
wastes from sorting of paper and cardboard destined for recycling
lime mud waste
fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
sludges from on-site effluent treatment other than those mentioned in 03 03 10
wastes not otherwise specified
fleshings and lime split wastes
liming waste
degreasing wastes containing solvents without a liquid phase
tanning liquor containing chromium
tanning liquor free of chromium
sludges, in particular from on-site effluent treatment containing chromium
sludges, in particular from on-site effluent treatment free of chromium
waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
wastes from dressing and finishing
wastes not otherwise specified

wastes from composite materials (impregnated textile, elastomer, plastomer)
organic matter from natural products (for example grease, wax)
wastes from finishing containing organic solvents
wastes from finishing other than those mentioned in 04 02 14
dyestuffs and pigments containing dangerous substances
dyestuffs and pigments other than those mentioned in 04 02 16
sludges from on-site effluent treatment containing dangerous substances
sludges from on-site effluent treatment other than those mentioned in 04 02 19
wastes from unprocessed textile fibres
wastes from processed textile fibres
wastes not otherwise specified
desalter sludges
tank bottom sludges
acid alkyl sludges
oil spills
oily sludges from maintenance operations of the plant or equipment
acid tars
other tars
sludges from on-site effluent treatment containing dangerous substances
sludges from on-site effluent treatment other than those mentioned in 05 01 09
wastes from cleaning of fuels with bases
oil containing acids
boiler feedwater sludges
wastes from cooling columns
spent filter clays
sulphur-containing wastes from petroleum desulphurisation
bitumen
wastes not otherwise specified
acid tars
other tars
waste from cooling columns
wastes not otherwise specified
wastes containing mercury
wastes containing sulphur
wastes not otherwise specified
sulphuric acid and sulphurous acid
hydrochloric acid
hydrochloric acid
phosphoric and phosphorous acid
nitric acid and nitrous acid
other acids
wastes not otherwise specified
calcium hydroxide
ammonium hydroxide
sodium and potassium hydroxide
other bases
wastes not otherwise specified
solid salts and solutions containing cyanides
solid salts and solutions containing heavy metals
solid salts and solution other than those mentioned in 06 03 11 and 06 03 13
metallic oxides containing heavy metals
metallic oxides other than those mentioned in 06 03 15
wastes not otherwise specified
wastes containing arsenic
wastes containing mercury
wastes containing other heavy metals

wastes not otherwise specified
sludges from on-site effluent treatment containing dangerous solutions
sludges from onsite effluent treatment other than those mentioned in 06 05 02
wastes containing dangerous sulphides
wastes containing sulphides other than those mentioned in 06 06 02
wastes not otherwise specified
wastes containing asbestos from electrolysis
activated carbon from chlorine production
barium sulphate sludge containing mercury
solutions and acids, for example contact acid
wastes not otherwise specified
waste containing dangerous silicones
wastes not otherwise specified
phosphorus slag
calcium-based reaction wastes containing or contaminated with dangerous substances
calcium-based reaction wastes other than those mentioned in 06 09 03
wastes not otherwise specified
wastes containing dangerous substances
wastes not otherwise specified
calcium-based reaction wastes from titanium dioxide production
wastes not otherwise specified
inorganic plant protection products, wood-preserving agents and other biocides
spent activated carbon (except 06 07 02)
carbon black
wastes from asbestos processing
soot
wastes not otherwise specified
aqueous washing liquids and mother liquors
organic halogenated solvents, washing liquids and mother liquors
other organic solvents, washing liquids and mother liquors
halogenated still bottoms and reaction residues
other still bottoms and reaction residues
halogenated filter cakes and spent absorbents
other filter cakes and spent absorbents
sludges from on-site effluent treatment containing dangerous substances
sludges from on-site effluent treatment other than those mentioned in 07 01 11
wastes not otherwise specified
aqueous washing liquids and mother liquors
organic halogenated solvents, washing liquids and mother liquors
other organic solvents, washing liquids and mother liquors
halogenated still bottoms and reaction residues
other still bottoms and reaction residues
halogenated filter cakes and spent absorbents
other filter cakes and spent absorbents
sludges from on-site effluent treatment containing dangerous substances
sludges from on-site effluent treatment other than those mentioned in 07 02 11
waste plastic
wastes from additives containing dangerous substances
wastes from additives other than those mentioned in 07 02 14
waste containing dangerous silicones
waste containing silicones other than those mentioned in 07 02 16
wastes not otherwise specified
aqueous washing liquids and mother liquors
organic halogenated solvents, washing liquids and mother liquors
other organic solvents, washing liquids and mother liquors
halogenated still bottoms and reaction residues

other still bottoms and reaction residues
halogenated filter cakes and spent absorbents
other filter cakes and spent absorbents
sludges from on-site effluent treatment containing dangerous substances
sludges from on-site effluent treatment other than those mentioned in 07 03 11
wastes not otherwise specified
aqueous washing liquids and mother liquors
organic halogenated solvents, washing liquids and mother liquors
other organic solvents, washing liquids and mother liquids
halogenated still bottoms and reaction residues
other still bottoms and reaction residues
halogenated filter cakes and spent absorbents
other filter cakes and spent absorbents
sludges from on-site effluent treatment containing dangerous substances
sludges from on-site effluent treatment other than those mentioned in 07 04 11
solid wastes containing dangerous substances
wastes not otherwise specified
aqueous washing liquids and mother liquors
organic halogenated solvents, washing liquids and mother liquors
other organic solvents, washing liquids and mother liquors
halogenated still bottoms and reaction residues
other still bottoms and reaction residues
halogenated filter cakes and spent absorbents
other filter cakes and spent absorbents
sludges from on-site effluent treatment containing dangerous substances
sludges from on-site effluent treatment other than those mentioned in 07 05 11
solid wastes containing dangerous substances
solid wastes other than those mentioned in 07 05 13
wastes not otherwise specified
aqueous washing liquids and mother liquors
organic halogenated solvents, washing liquids and mother liquors
other organic solvents, washing liquids and mother liquors
halogenated still bottoms and reaction residues
other sill bottoms and reaction residues
halogenated filter cakes and spent absorbents
other filter cakes and spent absorbents
sludges from on-site effluent treatment containing dangerous substances
sludges from on-site effluent treatment other than those mentioned in 07 06 11
wastes not otherwise specified
aqueous washing liquids and mother liquors
organic halogenated solvents, washing liquids and mother liquors
other organic solvents, washing liquids and mother liquors
halogenated still bottoms and reaction residues
other still bottoms and reaction residues
halogenated filter cakes and spent absorbents
other filter cakes and spent sbsorbents
sludges from on-site effluent treatment containing dangerous substances
sludges from on-site effluent treatment other than those mentioned in 07 07 11
wastes not otherwise specified
waste paint and varnish containing organic solvents or other dangerous substances
waste paint and varnish other than those mentioned in 08 01 11
sludges from paint or varnish containing organic solvents or other dangerous substances
sludges from paint or varnish other than those mentioned in 08 01 13
aqueous sludges containing paint or varnish containing organic solvents or other dangerous substanc
aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
wastes from paint or varnish removal containing organic solvents or other dangerous substances

wastes from paint or varnish removal other than those mentioned in 08 01 17
aqueous suspensions containing paint or varnish containing organic solvents or other dangerous substances
aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19
waste paint or varnish remover
wastes not otherwise specified
waste coating powders
aqueous sludges containing ceramic materials
aqueous suspensions containing ceramic materials
wastes not otherwise specified
aqueous sludges containing ink
aqueous liquid waste containing ink
waste ink containing dangerous substances
waste ink other than those mentioned in 08 03 12
ink sludges containing dangerous substances
ink sludges other than those mentioned in 08 03 14
waste etching solutions
waste printing toner containing dangerous substances
waste printing toner other than those mentioned in 08 03 17
disperse oil
wastes not otherwise specified
waste adhesives and sealants containing organic solvents or other dangerous substances
waste adhesives and sealants other than those mentioned in 08 04 09
adhesive and sealant sludges containing organic solvents or other dangerous substances
adhesive and sealant sludges other than those mentioned in 08 04 11
aqueous sludges containing adhesives or sealants containing organic solvents or other dangerous substances
aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
aqueous liquid waste containing adhesives or sealants containing organic solvents or other dangerous substances
aqueous liquid waste containing adhesives or sealants other than those mentioned in 08 04 15
rosin oil
wastes not otherwise specified
waste isocyanates
water-based developer and activator solutions
water-based offset plate developer solutions
solvent-based developer solutions
fixed solutions
bleach solutions and bleach fixer solutions
wastes containing silver from on-site treatment of photographic wastes
photographic film and paper containing silver or silver compounds
photographic film and paper free of silver or silver compounds
single-use cameras without batteries
single-use cameras containing batteries included in 16 06 01, 16 06 02 or 16 06 03
single-use cameras containing batteries other than those mentioned in 09 01 11
aqueous liquid waste from on-site reclamation of silver other than those mentioned in 09 01 06
wastes not otherwise specified
bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
coal fly ash
fly ash from peat and untreated wood
oil fly ash and boiler dust
calcium-based reaction wastes from flue-gas desulphurisation in solid form
calcium-based reaction wastes from flue-gas desulphurisation in sludge form
sulphuric acid
fly ash from emulsified hydrocarbons used as fuel
bottom ash, slag and boiler dust from co-incineration containing dangerous substances
bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
fly ash from co-incineration containing dangerous substances
fly ash from co-incineration other than those mentioned in 10 01 16

wastes from gas cleaning containing dangerous substances
wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
sludges from on-site effluent treatment containing dangerous substances
sludges from on-site effluent treatment other than those mentioned in 10 01 20
aqueous sludges from boiler cleansing containing dangerous substances
aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
sands from fluidised beds
wastes from fuel storage and preparation of coal-fired power plants
wastes from cooling-water treatment
wastes not otherwise specified
wastes from the processing of slag
unprocessed slag
solid wastes from gas treatment containing dangerous substances
solid wastes from gas treatment other than those mentioned in 10 02 07
mill scales
wastes from cooling-water treatment containing oil
waste from cooling-water treatment other than those mentioned in 10 02 11
sludges and filter cakes from gas treatment containing dangerous substances
sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
other sludges and filter cakes
wastes not otherwise specified
anode scraps
primary production slags
waste alumina
salt slags from secondary production
black drosses from secondary production
skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities
skimming other than those mentioned in 10 03 15
tar-containing wastes from anode manufacture
carbon-containing waste from anode manufacture other than those mentioned in 10 03 17
flue-gas dust containing dangerous substances
flue-gas dust other than those mentioned in 10 03 19
other particulates and dust (including ball-mill dust) containing dangerous substances
other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21
solid wastes from gas treatment containing dangerous substances
solid wastes from gas treatment other than those mentioned in 10 03 23
sludges and filter cakes from gas treatment containing dangerous substances
sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
wastes from cooling-water treatment containing oil
wastes from cooling-water treatment other than those mentioned in 10 03 27
waste from treatment of salt slags and black drosses containing dangerous substances
wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
wastes not otherwise specified
slags from primary and secondary production
dross and skimmings from primary and secondary production
calcium arsenate
flue-gas dust
other particulates and dust
solid wastes from gas treatment
sludges and filter cakes from gas treatment
wastes from cooling-water treatment containing oil
waste from cooling-water treatment other than those mentioned in 10 04 09
wastes not otherwise specified
slags from primary and secondary production
flue-gas dust
other particulates and dust

solid waste from gas treatment
sludges and filter cakes from gas treatment
wastes from cooling-water treatment containing oil
wastes from cooling-water treatment other than those mentioned in 10 05 08
dross and skimmings that are flammable or emit, upon contact with water, flammable gases in danger
dross and skimmings other than those mentioned in 10 05 10
wastes not otherwise specified
slags from primary and secondary production
dross and skimmings from primary and secondary production
flue-gas dust
other particulates and dust
solid wastes from gas treatment
sludges and filter cakes from gas treatment
wastes from cooling-water treatment containing oil
waste from cooling-water treatment other than those mentioned in 10 06 09
wastes not otherwise specified
slags from primary and secondary production
dross and skimmings from primary and secondary production
solid wastes from gas treatment
other particulates and dust
sludges and filter cakes from gas treatment
wastes from cooling-water treatment containing oil
wastes from cooling-water treatment other than those mentioned in 10 07 07
wastes not otherwise specified
particulates and dust
salt slag from primary and secondary production
other slags
dross and skimming that are flammable or emit, upon the contact with water, flammable gases in danger
dross and skimmings other than those mentioned in 10 08 10
tar-containing waste from anode manufacture
carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
anode scrap
flue-gas dust containing dangerous substances
flue-gas dust other than those mentioned in 10 08 15
sludges and filter cakes from flue-gas treatment containing dangerous substances
sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
wastes from cooling-water treatment containing oil
wastes from cooling-water treatment other than those mentioned in 10 08 19
wastes not otherwise specified
furnace slag
casting cores and moulds which have not undergone pouring containing dangerous substances
casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
casting cores and moulds which have undergone pouring containing dangerous substances
casting cores and moulds have undergone pouring other than those mentioned in 10 09 07
flue-gas dust containing dangerous substances
flue-gas dust other than those mentioned in 10 09 09
other particulates containing dangerous substances
other particulates other than those mentioned in 10 09 11
waste binders containing dangerous substances
waste binders other than those mentioned in 10 09 13
waste crack-indicating agent containing dangerous substances
waste crack-indicating agent other than those mentioned in 10 09 15
wastes not otherwise specified
furnace slag
casting cores and moulds which have not undergone pouring, containing dangerous substances
casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05

casting cores and moulds which have undergone pouring, containing dangerous substances
casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
flue-gas dust containing dangerous substances
flue-gas dust other than those mentioned in 10 10 09
other particulates containing dangerous substances
other particulates other than those mentioned in 10 10 11
waste binders containing dangerous substances
waste binders other than those mentioned in 10 10 13
waste crack-indicating agent containing dangerous substances
waste crack-indicating agent other than those mentioned in 10 10 15
wastes not otherwise specified
waste glass-based fibrous materials
particulates and dust
waste preparation mixture before thermal processing, containing dangerous substances
waste preparation mixture before thermal processing, other than those mentioned in 10 11 9
waste glass in small particles and glass powder containing heavy metals (for example from cathode r
waste glass other than those mentioned in 10 11 11
glass-polishing and -grinding sludge containing dangerous substances
glass-polishing and -grinding sludge other than those mentioned in 10 11 13
solid wastes from flue-gas treatment containing dangerous substances
solid wastes from flue-gas treatment other than those mentioned in 10 11 15
sludges and filter cakes from flue-gas treatment containing dangerous substances
sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
solid wastes from on-site effluent treatment containing dangerous substances
solid wastes from on-site effluent treatment other than those mentioned in 10 11 19
wastes not otherwise specified
waste preparation mixture before thermal processing
particulates and dust
sludges and filter cakes from gas treatment
discarded moulds
waste ceramics, bricks, tiles and construction products (after thermal processing)
solid wastes from gas treatment containing dangerous substances
solid wastes from gas treatment other than those mentioned in 10 12 09
wastes from glazing containing heavy metals
wastes from glazing other than those mentioned in 10 12 11
sludge from on-site effluent treatment
wastes not otherwise specified
waste preparation mixture before thermal processing
wastes from calcination and hydration of lime
particulates and dust (except 10 13 12 and 10 13 13)
sludges and filter cakes from gas treatment
wastes from asbestos-cement manufacture containing asbestos
wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
solid wastes from gas treatment containing dangerous substances
solid wastes from gas treatment other than those mentioned in 10 13 12
waste concrete and concrete sludge
wastes not otherwise specified
waste from gas cleaning containing mercury
pickling acids
acids not otherwise specified
pickling bases
phosphatising sludges
sludges and filter cakes containing dangerous substances
sludges and filter cakes other than those mentioned in 11 01 09
aqueous rinsing liquids containing dangerous substances

aqueous rinsing liquids other than those mentioned in 11 01 11
degreasing wastes containing dangerous substances
degreasing wastes other than those mentioned in 11 01 13
eluate and sludges from membrane systems or ion exchange systems containing dangerous substances
saturated or spent ion exchange resins
other wastes containing dangerous substances
wastes not otherwise specified
sludges from zinc hydrometallurgy (including jarosite, goethite)
wastes from the production of anodes for aqueous electrolytical processes
wastes from copper hydrometallurgical processes containing dangerous substances
wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
other wastes containing dangerous substances
wastes not otherwise specified
waste containing cyanide
other wastes
hard zinc
zinc ash
solid wastes from gas treatment
spent flux
wastes not otherwise specified
ferrous metal filings and turnings
ferrous metal dust and particles
non-ferrous metal filings and turnings
non-ferrous metal dust and particles
plastics shavings and turnings
mineral-based machining oils containing halogens (except emulsions and solutions)
mineral-based machining oils free of halogens (except emulsions and solutions)
machining emulsions and solutions containing halogens
machining emulsions and solutions free of halogens
synthetic machining oils
spent waxes and fats
welding wastes
machining sludges containing dangerous substances
machining sludges other than those mentioned in 12 01 14
waste blasting material containing dangerous substances
waste blasting material other than those mentioned in 12 01 16
metal sludge (grinding, honing and lapping sludge) containing oil
readily biodegradable machining oil
spent grinding bodies and grinding materials containing dangerous substances
spent grinding bodies and grinding materials other than those mentioned in 12 01 20
wastes not otherwise specified
aqueous washing liquids
steam degreasing wastes
hydraulic oils, containing PCBs (15)
chlorinated emulsions
non-chlorinated emulsions
mineral-based chlorinated hydraulic oils
mineral-based non-chlorinated hydraulic oils
synthetic hydraulic oils
readily biodegradable hydraulic oils
other hydraulic oils
mineral-based chlorinated engine, gear and lubricating oils
mineral-based non-chlorinated engine, gear and lubricating oils
synthetic engine, gear and lubricating oils
readily biodegradable engine, gear and lubricating oils
other engine, gear and lubricating oils

insulating or heat transmission oils containing PCBs
mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 C
mineral-based non-chlorinated insulating and heat transmission oils
synthetic insulating and heat transmission oils
readily biodegradable insulating and heat transmission oils
other insulating and heat transmission oils
bilge oils from inland navigation
bilge oils from jetty sewers
bilge oils from other navigation
solids from grit chambers and oil/water separators
sludges from oil/water separators
interceptor sludges
oil from oil/water separators
oily water from oil/water separators
mixtures of wastes from grit chambers and oil/water separators
fuel oil and diesel
petrol
other fuels (including mixtures)
desalter sludges or emulsions
other emulsions
wastes not otherwise specified
chlorofluorocarbons, HCFC, HFC
other halogenated solvents and solvent mixtures
other solvents and solvent mixtures
sludges or solid wastes containing halogenated solvents
sludges or solid wastes containing other solvents
paper and cardboard packaging
plastic packaging
wooden packaging
metallic packaging
composite packaging
mixed packaging
glass packaging
textile packaging
packaging containing residues of or contaminated by dangerous substances
metallic packaging containing a dangerous solid porous matrix (for example asbestos), including emp
absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothi
absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02
end-of-life tyres
end-of-life vehicles
end-of-life vehicles, containing neither liquids nor other hazardous components
oil filters
components containing mercury
components containing PCBs
explosive components (for example air bags)
brake pads containing asbestos
brake pads other than those mentioned in 16 01 11
brake fluids
antifreeze fluids containing dangerous substances
antifreeze fluids other than those mentioned in 16 01 14
tanks for liquefied gas
ferrous metal
non-ferrous metal
plastic
glass
hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 1

components not otherwise specified
wastes not otherwise specified
transformers and capacitors containing PCBs
discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
discarded equipment containing chlorofluorocarbons, HCFC, HFC
discarded equipment containing free asbestos
discarded equipment containing hazardous components (16) other than those mentioned in 16 02 09
discarded equipment other than those mentioned in 16 02 09 to 16 02 13
hazardous components removed from discarded equipment
components removed from discarded equipment other than those mentioned in 16 02 15
inorganic wastes containing dangerous substances
inorganic wastes other than those mentioned in 16 03 03
organic wastes containing dangerous substances
organic wastes other than those mentioned in 16 03 05
waste ammunition
fireworks wastes
other waste explosives
gases in pressure containers (including halons) containing dangerous substances
gases in pressure containers other than those mentioned in 16 05 04
laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory
discarded inorganic chemicals consisting of or containing dangerous substances
discarded organic chemicals consisting of or containing dangerous substances
discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
lead batteries
Ni-Cd batteries
mercury-containing batteries
alkaline batteries (except 16 06 03)
other batteries and accumulators
separately collected electrolyte from batteries and accumulators
wastes containing oil
wastes containing other dangerous substances
wastes not otherwise specified
spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08
spent catalysts containing dangerous transition metals (17) or dangerous transition metal compounds
spent catalysts containing transition metals or transition metal compounds not otherwise specified
spent fluid catalytic cracking catalysts (except 16 08 07)
spent catalysts containing phosphoric acid
spent liquids used as catalysts
spent catalysts contaminated with dangerous substances
permanganates, for example potassium permanganate
chromates, for example potassium chromate, potassium or sodium dichromate
peroxides, for example hydrogen peroxide
oxidising substances, not otherwise specified
aqueous liquid wastes containing dangerous substances
aqueous liquid wastes other than those mentioned in 16 10 01
aqueous concentrates containing dangerous substances
aqueous concentrates other than those mentioned in 16 10 03
carbon-based linings and refractories from metallurgical processes containing dangerous substances
carbon-based linings and refractories from metallurgical processes other than those mentioned in 16
other linings and refractories from metallurgical processes containing dangerous substances
other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
linings and refractories from non-metallurgical processes containing dangerous substances
linings and refractories from non-metallurgical processes other than those mentioned in 16 11 05
concrete
bricks
tiles and ceramics

mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances
mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
wood
glass
plastic
glass, plastic and wood containing or contaminated with dangerous substances
bituminous mixtures containing coal tar
bituminous mixtures containing other than those mentioned in 17 03 01
coal tar and tarred products
copper, bronze, brass
aluminium
lead
zinc
iron and steel
tin
mixed metals
metal waste contaminated with dangerous substances
cables containing oil, coal tar and other dangerous substances
cables other than those mentioned in 17 04 10
soil and stones containing dangerous substances
soil and stones other than those mentioned in 17 05 03
dredging spoil containing dangerous substances
dredging spoil other than those mentioned in 17 05 05
track ballast containing dangerous substances
track ballast other than those mentioned in 17 05 07
insulation materials containing asbestos
other insulation materials consisting of or containing dangerous substances
insulation materials other than those mentioned in 17 06 01 and 17 06 03
construction materials containing asbestos (18)
gypsum-based construction materials contaminated with dangerous substances
gypsum-based construction materials other than those mentioned in 17 08 01
construction and demolition wastes containing mercury
construction and demolition wastes containing pcb (for example pcb-containing sealants, pcb-containing
other construction and demolition wastes (including mixed wastes) containing dangerous substances
mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
sharps (except 18 01 03)
body parts and organs including blood bags and blood preserves (except 18 01 03)
wastes whose collection and disposal is subject to special requirements in order to prevent infection
wastes whose collection and disposal is not subject to special requirements in order to prevent infection
chemicals consisting of or containing dangerous substances
chemicals other than those mentioned in 18 01 06
cytotoxic and cytostatic medicines
medicines other than those mentioned in 18 01 08
amalgam waste from dental care
sharps except (18 02 02)
wastes whose collection and disposal is subject to special requirements in order to prevent infection
wastes whose collection and disposal is not subject to special requirements in order to prevent infection
chemicals consisting of or containing dangerous substances
chemicals other than those mentioned in 18 02 05
cytotoxic and cytostatic medicines
medicines other than those mentioned in 18 02 07
ferrous materials removed from bottom ash
filter cake from gas treatment
aqueous liquid wastes from gas treatment and other aqueous liquid wastes
solid wastes from gas treatment
spent activated carbon from flue-gas treatment

bottom ash and slag containing dangerous substances
bottom ash and slag other than those mentioned in 19 01 11
fly ash containing dangerous substances
fly ash other than those mentioned in 19 01 13
boiler dust containing dangerous substances
boiler dust other than those mentioned in 19 01 15
pyrolysis wastes containing dangerous substances
pyrolysis wastes other than those mentioned in 19 01 17
sands from fluidised beds
wastes not otherwise specified
premixed wastes composed only of non-hazardous wastes
premixed wastes composed of at least one hazardous waste
sludges from physico/chemical treatment containing dangerous substances
sludges from physico/chemical treatment other than those mentioned in 19 02 05
oil and concentrates from separation
liquid combustible wastes containing dangerous substances
solid combustible wastes containing dangerous substances
combustible wastes other than those mentioned in 19 02 08 and 19 02 09
other wastes containing dangerous substances
wastes not otherwise specified
wastes marked as hazardous, partly (20) stabilised
stabilised wastes other than those mentioned in 19 03 04
wastes marked as hazardous, solidified
solidified wastes other than those mentioned in 19 03 06
vitrified waste
fly ash and other flue-gas treatment wastes
non-vitrified solid phase
aqueous liquid wastes from vitrified waste tempering
non-composted fraction of municipal and similar wastes
non-composted fraction of animal and vegetable waste
off-specification compost
wastes not otherwise specified
liquor from anaerobic treatment of municipal waste
digestate from anaerobic treatment of municipal waste
liquor from anaerobic treatment of animal and vegetable waste
digestate from anaerobic treatment of animal and vegetable waste
wastes not otherwise specified
landfill leachate containing dangerous substances
landfill leachate other than those mentioned in 19 07 02
screenings
waste from desanding
sludges from treatment of urban waste water
saturated or spent ion exchange resins
solutions and sludges from regeneration of ion exchangers
membrane system waste containing heavy metals
grease and oil mixture from oil/water separation containing only edible oil and fats
grease and oil mixture from oil/water separation other than those mentioned in 19 08 09
sludges containing dangerous substances from biological treatment of industrial waste water
sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
sludges containing dangerous substances from other treatment of industrial waste water
sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
wastes not otherwise specified
solid waste from primary filtration and screenings
sludges from water clarification
sludges from decarbonation
spent activated carbon

saturated or spent ion exchange resins
solutions and sludges from regeneration of ion exchangers
wastes not otherwise specified
iron and steel waste
non-ferrous waste
fluff-light fraction and dust containing dangerous substances
fluff-light fraction and dust other than those mentioned in 19 10 03
other fractions containing dangerous substances
other fractions other than those mentioned in 19 10 05
spent filter clays
acid tars
aqueous liquid wastes
wastes from cleaning of fuel with bases
sludges from on-site effluent treatment containing dangerous substances
sludges from on-site effluent treatment other than those mentioned in 19 11 05
wastes from flue-gas cleaning
wastes not otherwise specified
paper and cardboard
ferrous metal
non-ferrous metal
plastic and rubber
glass
wood containing dangerous substances
wood other than that mentioned in 19 12 06
textiles
minerals (for example sand, stones)
combustible waste (refuse derived fuel)
other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances
other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 01
solid wastes from soil remediation containing dangerous substances
solid wastes from soil remediation other than those mentioned in 19 13 01
sludges from soil remediation containing dangerous substances
sludges from soil remediation other than those mentioned in 19 13 03
sludges from groundwater remediation containing dangerous substances
sludges from groundwater remediation other than those mentioned in 19 13 05
aqueous liquid wastes and aqueous concentrates from groundwater remediation containing dangerous substances
aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 01
paper and cardboard
glass
biodegradable kitchen and canteen waste
clothes
textiles
solvents
acids
alkalines
photochemicals
pesticides
fluorescent tubes and other mercury-containing waste
discarded equipment containing chlorofluorocarbons
edible oil and fat
oil and fat other than those mentioned in 20 01 25
paint, inks, adhesives and resins containing dangerous substances
paint, inks, adhesives and resins other than those mentioned in 20 01 27
detergents containing dangerous substances
detergents other than those mentioned in 20 01 29
cytotoxic and cytostatic medicines

medicines other than those mentioned in 20 01 31
batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and acc
batteries and accumulators other than those mentioned in 20 01 33
discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 ;
discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 2
wood containing dangerous substances
wood other than that mentioned in 20 01 37
plastics
metals
wastes from chimney sweeping
other fractions not otherwise specified
biodegradable waste
soil and stones
other non-biodegradable wastes
mixed municipal waste
waste from markets
street-cleaning residues
septic tank sludge
waste from sewage cleaning
bulky waste
municipal wastes not otherwise specified

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PROCESSING 23
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DENTAL ENAMELS, ADHESIVES, SEALANTS AND PRINTING INKS

METALLURGY

FIELD

from immediate RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
SEPARATELY COLLECTED FRACTIONS

production; yeast and yeast extract production, molasses preparation and fermentation

cept 03 02) and other biocides

c coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)

-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)

pecified

Hazardous

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RD_Code

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R10

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R4

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RD_Description

Landfill

Deposit into or onto land, (e.g. landfill, etc.)

- deposit of overburden, waste rock and tailings on heaps in the extractive industry.

Incineration on land

- municipal solid waste incineration plants for incineration of MSW, hazardous waste, sewage sludge, clinical waste, animal carcasses.

Incineration at sea

This operation is prohibited by EU legislation and international conventions.

Permanent storage

Permanent storage (e.g. emplacement of containers in a mine, etc.)

- landfills for the underground storage of waste.

Blending or mixing prior to submission to any of the operations numbered D1-D12

- basic sorting activities; crushing and shredding of waste in order to reduce the volume of waste for transport or landfilling; mixing and blending of waste (e.g. mixing of similar wastes from different waste generators); homogenisation, conditioning and solidification

Repackaging prior to submission to any of the operations numbered D1-D13

- transfer and compaction of waste; packaging of asbestos

Storage pending any of the operations numbered D1-D14

Does not apply to storage of waste prior to collection at the site at which it was generated. Temporary storage of waste prior to disposal is limited to a period of <1 year. Otherwise the provisions of the Landfill Directive apply (Directive 1999/31/EC, Article 2(g)).

Land treatment

Land treatment, (e.g. biodegradation of liquid or sludgy discards in soils, etc.)

- spreading of waste on land, often followed by the incorporation of the waste into the soil, which does not result in benefit to agriculture or other ecological improvements. Generally applies to non-hazardous sludge and liquid wastes, e.g. disposal of dredging sludge.

Injection

Deep injection, (e.g. injection of pumpable discards into wells, salt domes or naturally occurring repositories, etc.)

- injection of waste into natural and artificial cavities (e.g. salt domes, wells, mines), and porous formations of rock not covered by Directive 1999/31/EC.

Surface impoundment

Surface impoundment, (e.g. placement of liquid or sludge discards into pits, ponds or lagoons, etc.)

- the deposit of waste in natural or engineered ponds, pits or lagoons (impoundment), which is the predominant method for the management of tailings in mining operations; impoundment of dredging sludge.

Engineered landfill

Specially engineered landfill, (e.g. placement into lined discrete cells which are capped and isolated from one another and the environment, etc.)

- landfills for inert waste, non-hazardous waste and hazardous waste above ground.

Release to waters

Release into a water body except seas/oceans

- deposit of non-hazardous dredging sludge and other non-hazardous sludge in surface water including the bed and the subsoil.

Release to sea

Release into seas/oceans including sea-bed insertion

- discharge of waste at sea in accordance with the OSPAR Convention (e.g. discharge of fish processing waste and inert materials of natural origin).

Biological treatment

Biological treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1- D12

-biological-mechanical treatment of municipal waste; biological treatment of contaminated soil; sludges or mineral wastes, if followed by disposal

Physico chemical treatment

Physico chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1-D12 (e.g. evaporation, drying, calcination, neutralization, precipitation, etc.)

-physico-chemical treatment is typically deployed for: emulsions and oil/water mixtures; neutral aqueous organics and inorganics (production specific waste water, leachate, etc.); cyanides; acids and alkalis. Typical treatment steps are detoxification (oxidation/reduction), precipitation, neutralisation, emulsion separation, immobilisation, electrolysis and osmosis.

Use as fuel

Use as a fuel (other than in direct incineration) or other means to generate energy

- use of tyres, waste oils, or spent solvents in cement kilns; co-incineration of sewage sludge or refuse-derived fuel (RDF) from municipal waste in power stations.

Landspreading

Land treatment resulting in benefit to agriculture or ecological improvement

- use of sewage sludge in agriculture in compliance with the Sewage Sludge Directive; the spreading on land of compost from the treatment of separately collected biowaste; the use of manure in compliance with agricultural regulations; the use of mineral wastes as fertilisers in compliance with national legislation; landscape restoration, e.g. as final landfill cover; restoration of old disused quarries.

Use of residuals

Uses of residual materials obtained from any of the operations numbered R1-R10

- energy recovery of sorting residues, shredder light fraction, or distillation sludge from oil-refining; the use of slag from co-incineration for underground stowage.

Waste Exchange prior to recovery

Exchange of wastes for submission to any of the operations numbered R1-R11

- basic sorting activities; mixing of waste from different generators before it is sent to a recovery facility; transfer and compaction of waste; shredding of wood waste prior to energy recovery.

Storage prior to recovery

Accumulation of material intended for any operation numbered R1-R12

- interim storage of waste prior to recovery is limited to a period of <3 years, otherwise storage is subject to provisions of Landfill Directive.

Solvent reclamation/regeneration

- re-refining of solvents in order to separate contaminants and to restore the solvent to its original quality or to a lower grade product (e.g. lacquer thinner); preparation of secondary liquid fuels (SLF), usually by blending with other liquid wastes.

Organic substance recycling/reclamation

Recycling/reclamation of organic substances which are not used as solvents

- recycling of waste paper and board; reprocessing and recycling of plastic waste; composting of bio waste and green waste; fermentation of biodegradable waste for biogas production (biogas plants).

Metal recycling/reclamation

Recycling/reclamation of metals and metal compounds

- recycling of scrap and production waste in steelworks; shredding and reprocessing of ELVs and WEEE; thermal treatment of cables or oil-contaminated metals; battery recycling; electrolytic recovery of silver from photo chemicals.

Inorganic substance recycling/reclamation

Recycling/reclamation of other inorganic materials

- reprocessing of construction and demolition waste; reprocessing and recycling of glass waste; use as secondary raw material in cement kilns; asphalt mixing plants; use for underground stowage in mines.

Regeneration of acids or bases

- re-concentration of spent acids; the thermal decomposition of spent sulphuric acid for use as feedstock in sulphuric acid production.

Recovery of components used for pollution abatement

- regeneration of activated carbon from water purification and flue gas treatment, mainly by thermal treatment; the regeneration of resins by solvent washing.

Recovery of components from catalysts

- regeneration of catalysts to be reused as catalysts; the recovery of catalyst components, mainly of metal components, e.g. recycling of precious metals from catalytic converters in vehicle exhausts.

Used oil re-refining or other reuses of previously used oil

- Re-refining into base oils which can be used to manufacture lubricating products; use to generate fuel which can be used as a substitute for coal, diesel and light fuel.

RD_Type

Disposal

Disposal

Disposal

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Disposal

Recovery

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Recovery

Select a code by double-clicking on the method code cell below

Methods used for determination of releases to air: Method Identification		
For each parameter please click on the Method Code that applies. Please take note of the appropriate Method Category		
Method Code	M/C/E	Where this code is applicable
ISO 10397:1993	M	Asbestos
ISO 11338-1 to 2:2003	M	Anthracene, polycyclic aromatic hydrocarbons (PAHs) & flouranthene
EN 14385:2004	M	(Arsenic, Cadmium, Chromium, Cobalt, Copper, Manganese, Nickel, Lead, Antimony, Thallium, Vanadium and Zinc) & Compounds
EN 15058:2004	M	Carbon Monoxide (CO)
ISO 12039:2001	M	Carbon Monoxide (CO) & Carbon Dioxide (CO ₂)
EN 1911-1 to 3:2003	M	Chlorine & Inorganic Compounds (as HCl)
ISO/DIS 15713:2004	M	Fluorine & Inorganic Compounds (as HF)
EN 13211:2001	M	Mercury & Compounds (as Hg)
EN 14884:2005	M	Mercury & Compounds (as Hg)
EN 14792:2005	M	Nitrogen Oxides (Nox/NO ₂)
ISO 11564:1998	M	Nitrogen Oxides (Nox/NO ₂)
ISO 10849:1996	M	Nitrogen Oxides (Nox/NO ₂)
EN 13649:2001	M	Non-Methane Volatile Organic (NMVOC) & Benzene
EN 1948-1 to 3:2003	M	PCDD + PCDF(dioxins + furans) (as Teq),
EN 14791:2005	M	Sulphur Oxides (Sox/SO ₂)
ISO 7934:1989	M	Sulphur Oxides (Sox/SO ₂)
ISO 7935: 1992	M	Sulphur Oxides (Sox/SO ₂)
ISO 11632:1998	M	Sulphur Oxides (Sox/SO ₂)
ALT	M	Is applicable if the facility is using a CEN or ISO standard but not the one on the approved list in the PRTR Guidance.
CRM	M	If a lab/facility is using a non-ISO/CEN Method that is validated and accredited or has been accepted by the Agency.
ETS	C	If a facility is registered as part of the Emission Trading Scheme.
OTH	M / C	If the method or the calculation does not fall under any of the method codes e.g. in-house methodology not based on CEN/ISO standard.
PER	M/C	This is only applicable if the facility's license specifies a specific standard method to use e.g. Use ISO... If you license states to use Standard Method or a particular piece of equipment this does not fall under PER.
NRB	M/C	Not Applicable to Irish Licenses.
MAB	C	Used for the calculation of fugitive emissions.
SSC	C	The only European wide sector specific calculation method used in Ireland is for Greenhouse methods and this is covered by ETS.
ESTIMATE	E	Estimates are used when the releases are determined by best assumptions or expert guesses that are not based on publicly available references or in case of absence of recognised emission estimation methodologies or good practice guidelines.

Methods used for determination of releases to water & waste water or se

For each parameter please click on the Method Code that applies. Please take note of the appropriate **Method Category**

Method Code	M/C/E	Where this code is applicable
EN ISO 10301:1997	M	1,2-dichloroethane (EDC), dichloromethane (DCM)
EN ISO 15680:2003	M	1,2-dichloroethane (EDC), dichloromethane (DCM), tetrachloroethylene (PER), trichlorobenzenes (TCBs) (all isomers), trichloroethylene, trichloromethane, vinyl chloride, benzene, ethyl benzene, naphthalene, toluene, xylenes
EN ISO 6468:1996	M	Aldrin, DDT, dieldrin, endosulfan, endrin, heptachlor, hexachlorobenzene (HCB), 1,2,3,4,5,6-hexachlorocyclohexane (HCH), lindane, pentachlorobenzene, polychlorinated biphenols (PCBs)
EN ISO 17993:2003	M	Anthracene, naphthalene, polycyclic aromatic hydrocarbons (PAHs), flouranthene, benzo(g,h,i)perylene
EN ISO 11969:1996	M	Arsenic & Compounds (as As)
EN 26595:1992	M	Arsenic & Compounds (as As)
EN ISO 10695:2000	M	Atrazine, Simazine
EN ISO 11423-1 to 2:1997, ISO 22032	M	Benzene
EN ISO 5961:1995	M	Brominated Biphenylethers (PBDE)
EN ISO 15682:2001	M	Cadmium & Compounds (as Cd)
EN ISO 10304-1 to 4:1995	M	Chlorides (as total Cl)
EN 1233:1996	M	Chlorides (as total Cl), Fluorides (as total F)
EN 1233:1996	M	Chromium & (as Cr)
EN ISO 14403:2002	M	Cyanides (as total CN)
EN ISO 18856:2005	M	Di-(2-ethyl hexyl) phthalate (DEHP)
EN ISO 11369:1997	M	Diuron, Simazine
EN ISO 9562:2004	M	Halogenated Organics (as AOX)
EN 1483:1997	M	Mercury & Compounds (as Hg)
EN 12338:1998	M	Mercury & Compounds (as Hg)
EN 13506:2001	M	Mercury & Compounds (as Hg)
EN ISO 17353:2005	M	Organotin (as total Sn), Tributyltin, Triphenyltin & Compounds
ISO 18073:2004	M	PCDD + PCDF (dioxins + furans) (as 1 eq)
ISO 18857-1:2005	M	Phenols (as total C)
ISO 7981-1 to 2:2005	M	Polycyclic Aromatic Hydrocarbons (PAHs)
EN 1484:1997	M	Total Organic Carbon (TOC) (as total C or COD/3)
EN 12260:2003	M	
EN ISO 11905-1:1998	M	Total Nitrogen
EN ISO 15681-1 to 2:2004	M	Total Phosphorous
EN ISO 11885:1997	M	Total Phosphorous, Cadmium & compounds, Chromium & Compounds, Copper & Compounds, Nickel & Compounds, Lead & Compounds and Zinc & Compounds.
EN ISO 6878:2004	M	Total Phosphorous
ALT	M	Is applicable if the facility is using a CEN or ISO standard but not the one on the approved list in the PRTR Guidance.
CRM	M	If a lab/facility is using a non-ISO/CEN Method that is validated and accredited or has been accepted by the Agency.
ETS	C	If a facility is registered as part of the Emission Trading Scheme.

OTH	M /C	If the method or the calculation does not fall under any of the method codes e.g. in-house methodology not based on CEN/ISO standard.
PER	M/C	This is only applicable if the facility's license specifies a specific standard method to use e.g. Use ISO... If you license states to use Standard Method or a particular piece of equipment this does not fall under PER.
NRB	M/C	Not Applicable to Irish Licenses.
MAB	C	Used for the calculation of fugitive emissions.
SSC	C	The only European wide sector specific calculation method used in Ireland is for Greenhouse methods and this is covered by ETS.
ESTIMATE	E	Estimates are used when the releases are determined by best assumptions or expert guesses that are not based on publicly available references or in case of absence of recognised emission estimation methodologies or good practice guidelines.

Codes

ory (M/C/E) and Method Designation or Description according to this

Designation or Description

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Name of the ISO /CEN Standard

Name of the non-ISO/CEN Standard

Leave Blank

Brief & specific description of the method / Calculation used.

Name of the prescribed standard

-

Brief & specific description of the Calculation used.

-

Leave blank, however a detailed description of how the estimation was undertaken must be outlined in your Annual Environmental Report (AER)

ory (M/C/E) and Method Designation or Description according to this

Designation or Description

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Brief & specific description of the method / Calculation used.

Name of the prescribed standard

-

Brief & specific description of the Calculation used.

-

Leave blank, however a detailed description of how the estimation was undertaken must be outlined in your Annual Environmental Report (AER)

Method Codes
M
C
E

Lookups Configured
Y

Water Types
Freshwater
Seawater
Estuary

Transfer Destination
Within the Country
To Other Countries

Waste Treatment Operation
Recovery
Disposal

Waste Method Used
Weighed
Volume Calculation

Treatment Location
Onsite of generation
Offsite in Ireland
Abroad

Yes/No
Yes
No

Country
Afghanistan
Åland Islands
Albania
Algeria
American Samoa
Andorra
Angola
Anguilla
Antarctica
Antigua and Barbuda
Argentina
Armenia
Aruba
Australia
Austria
Azerbaijan
Bahamas
Bahrain
Bangladesh
Barbados
Belarus
Belgium
Belize
Benin

Bermuda
Bhutan
Bolivia
Bosnia and Herzegovina
Botswana
Bouvet Island
Brazil
British Indian Ocean Territory
Brunei Darussalam
Bulgaria
Burkina Faso
Burundi
Cambodia
Cameroon
Canada
Cape Verde
Cayman Islands
Central African Republic
Chad
Chile
China
Christmas Island
Cocos (Keeling) Islands
Colombia
Comoros
Congo
Congo the Democratic Republic of the
Cook Islands
Costa Rica
Côte d'Ivoire
Croatia
Cuba
Cyprus
Czech Republic
Denmark
Djibouti
Dominica
Dominican Republic
Ecuador
Egypt
El Salvador
Equatorial Guinea
Eritrea
Estonia
Ethiopia
Falkland Islands (Malvinas)
Faroe Islands
Fiji
Finland
France
French Guiana
French Polynesia
French Southern Territories
Gabon
Gambia

Georgia
Germany
Ghana
Gibraltar
Greece
Greece
Greenland
Grenada
Guadeloupe
Guam
Guatemala
Guernsey
Guinea
Guinea-Bissau
Guyana
Haiti
Heard Island and McDonald Islands
Holy See (Vatican City State)
Honduras
Hong Kong
Hungary
Iceland
India
Indonesia
Iran Islamic Republic of
Iraq
Ireland
Isle Of Man
Israel
Italy
Jamaica
Japan
Jersey
Jordan
Kazakhstan
Kenya
Kiribati
Korea Democratic People's Republic of
Korea Republic of
Kuwait
Kyrgyzstan
Lao People's Democratic Republic
Latvia
Lebanon
Lesotho
Liberia
Libyan Arab Jamahiriya
Liechtenstein
Lithuania
Luxembourg
Macao
Macedonia the Former Yugoslav Republic of

Madagascar
Malawi
Malaysia
Maldives
Mali
Malta
Marshall Islands
Martinique
Mauritania
Mauritius
Mayotte
Mexico
Micronesia Federated States of
Moldova Republic of
Monaco
Mongolia
Montenegro
Montserrat
Morocco
Mozambique
Myanmar
Namibia
Nauru
Nepal
Netherlands
Netherlands Antilles
New Caledonia
New Zealand
Nicaragua
Niger
Nigeria
Niue
Norfolk Island
Northern Mariana Islands
Norway
Oman
Pakistan
Palau
Palestinian Territory Occupied
Panama
Papua New Guinea
Paraguay
Peru
Philippines
Pitcairn
Poland
Portugal
Puerto Rico
Qatar
Reunion
Romania
Russian Federation
Rwanda
Saint Barthélemy
Saint Helena

Saint Kitts and Nevis
Saint Lucia
Saint Martin
Saint Pierre and Miquelon
Saint Vincent and the Grenadines
Samoa
San Marino
Sao Tome and Principe
Saudi Arabia
Senegal
Serbia
Seychelles
Sierra Leone
Singapore
Slovakia
Slovenia
Solomon Islands
Somalia
South Africa
South Georgia and the South Sandwich Islands
Spain
Sri Lanka
Sudan
Suriname
Svalbard and Jan Mayen
Swaziland
Sweden
Switzerland
Syrian Arab Republic
Taiwan Province of China
Tajikistan
Tanzania United Republic of
Thailand
Timor-Leste
Togo
Tokelau
Tonga
Trinidad and Tobago
Tunisia
Turkey
Turkmenistan
Turks and Caicos Islands
Tuvalu
Uganda
Ukraine
United Arab Emirates
United Kingdom
United States
United States Minor Outlying Islands
Uruguay
Uzbekistan
Vanuatu
Venezuela

Viet Nam
Virgin Islands British
Virgin Islands U.S.
Wallis and Futuna
Western Sahara
Yemen
Zambia
Zimbabwe

General Help

This Excel workbook is divided into numerous worksheets

The first group of worksheets form the AER return once filled in by the licensee

The remaining worksheets provide reference material to assist in the filling out of the data

Quick help on filling out each sheet can also be found by hovering your mouse over the red triangle in cells that

Printing

The AER return data from each sheet can be printed by clicking on the PRINT THIS SHEET button

Creating & Submitting an AER Return

Once all relevant data has been entered click the CREATE AER XML RETURN & UPLOAD button on the Facility

This will validate the workbook and prompt you to enter a location for creating the XML AER Return file (C:\) by

You can either accept the default path or enter a different path where the file will be created, then click the OK button

Once the file has been created a message will be displayed containing further instructions (Make a note of the file name)

You will then be redirected to the AER returns website where you must first login and then attach your XML file

It is therefore important to ensure you have internet access from the computer you are making a return from

Follow the instructions on the website to complete the AER return

Facility ID & Activities

This worksheet contains Licensee-specific information about the facility making the return

The following areas should be filled out on this worksheet :

Production Volume

Number of Installations

Number of Operating Hours in Year

Number of Employees

User Feedback/Comments

Web Address

You should also fill out section 3 - Solvents Directive

Please examine all pre-entered data to ensure that it is correct. You will need to inform the EPA if anything shows

Releases to Air

This worksheet allows you to enter any pollutants that are released to air

Based on your Class Activities the PRTR pollutants list will be divided into two sections (Section A and B)

Section A represents sector-specific pollutants which apply to air and are based on your class activities

Section B represents all remaining pollutants that could be released to air but are not contained in Section A

This division of pollutants allows for quicker and more intuitive filling out of the worksheet as pollutants are grouped

The third section (Section C) provides an area to fill in Licensed pollutants

An additional section for Landfill operators must be filled out also

Enter a Total KG/Year, Method used details and the Facility Total Capacity as appropriate

Each section is filled in the same manner

Begin by selecting a pollutant from the dropdown list under the pollutant section

When you select a pollutant the pollutant number and name will appear in the corresponding cells

Next, fill in the method used section of the worksheet by selecting a method from the dropdown list

Only Measured, Calculated or Estimated are the values that can be entered here

Fill in a Method Code and Designation or Description (For further help please refer to the Methods Used worksheet)

Next, enter the quantities of release for this pollutant under Emission Point 1

This will appear in the Total Quantity cell also

If any Accidental or Fugitive releases for this pollutant are applicable then enter these under the Accidental or Fugitive

If you have releases from more than one Emission Point then you can add additional points by clicking on the Add Emission Point button

This will add an additional Emission Point column to the right of the last one (A maximum of 9 points can be used)

The Accidental and Fugitive quantities represent the totals for ALL emission points and not one particular point

You can also enter comments or a description of each emission point in the grey cell over the emission point

In order to add another pollutant in a particular section you must click the ADD NEW ROW button

If you have made a mistake and wish to remove the last row entered then click the DELETE LAST ROW button

If you have no releases for a particular section then do not enter any pollutant or related data into the section - |

Releases to Waters

This worksheet allows you to enter any pollutants that are released to water

Based on your Class Activities the PRTR pollutants list will be divided into two sections (Section A and B)

Section A represents sector-specific pollutants which apply to water and are based on your class activities

Section B represents all remaining pollutants that could be released to water but are not contained in Section A

This division of pollutants allows for quicker and more intuitive filling out of the worksheet as pollutants are grouped

The third section (Section C) provides an area to fill in Licensed pollutants

Each section is filled in the same manner

Begin by selecting a pollutant from the dropdown list under the pollutant section

When you select a pollutant the pollutant number and name will appear in the corresponding cells

Next, fill in the method used section of the worksheet by selecting a method from the dropdown list

Only Measured, Calculated or Estimated are the values that can be entered here

Fill in a Method Code and Designation or Description (For further help please refer to the Methods Used worksheet)

Next, enter the quantities of release for this pollutant under Emission Point 1

This will appear in the Total Quantity cell also

If any Accidental or Fugitive releases for this pollutant are applicable then enter these under the Accidental or Fugitive

If you have releases from more than one Emission Point then you can add additional points by clicking on the ADD NEW ROW button

This will add an additional Emission Point column to the right of the last one (A maximum of 9 points can be used)

The Accidental and Fugitive quantities represent the totals for ALL emission points and not one particular point

You can also enter comments or a description of each emission point in the grey cell over the emission point

In order to add another pollutant in a particular section you must click the ADD NEW ROW button

If you have made a mistake and wish to remove the last row entered then click the DELETE LAST ROW button

If you have no releases for a particular section then do not enter any pollutant or related data into the section - |

Offsite Transfers of Pollutants

This worksheet allows you to enter any pollutants that are transferred offsite and are destined for waste-water treatment

This worksheet is divided into two sections (Section A and B)

Section A represents PRTR pollutants while section B represents Licensed pollutants

Each section is filled in the same manner

Begin by selecting a pollutant from the dropdown list under the pollutant section

When you select a pollutant the pollutant number and name will appear in the corresponding cells

Next, fill in the method used section of the worksheet by selecting a method from the dropdown list

Only Measured, Calculated or Estimated are the values that can be entered here

Fill in a Method Code and Designation or Description (For further help please refer to the Methods Used worksheet)

Next, enter the quantities of release for this pollutant under Emission Point 1

This will appear in the Total Quantity cell also

If any Accidental or Fugitive releases for this pollutant are applicable then enter these under the Accidental or Fugitive

If you have releases from more than one Emission Point then you can add additional points by clicking on the ADD NEW ROW button

This will add an additional Emission Point column to the right of the last one (A maximum of 9 points can be used)

The Accidental and Fugitive quantities represent the totals for ALL emission points and not one particular point

You can also enter comments or a description of each emission point in the grey cell over the emission point

In order to add another pollutant in a particular section you must click the ADD NEW ROW button

If you have made a mistake and wish to remove the last row entered then click the DELETE LAST ROW button

If you have no releases for a particular section then do not enter any pollutant or related data into the section - |

Releases to Land

This worksheet allows you to enter any pollutants that are released to land

This worksheet is divided into two sections (Section A and B)

Section A represents PRTR pollutants while section B represents Licensed pollutants

Each section is filled in the same manner

Begin by selecting a pollutant from the dropdown list under the pollutant section

When you select a pollutant the pollutant number and name will appear in the corresponding cells

Next, fill in the method used section of the worksheet by selecting a method from the dropdown list

Only Measured, Calculated or Estimated are the values that can be entered here

Fill in a Method Code and Designation or Description (For further help please refer to the Methods Used works

Next, enter the quantities of release for this pollutant under Emission Point 1

This will appear in the Total Quantity cell also

If any Accidental releases for this pollutant are applicable then enter these under the Accidental section

If you have releases from more than one Emission Point then you can add additional points by clicking on the /

This will add an additional Emission Point column to the right of the last one (A maximum of 9 points can be us

The Accidental quantities represent the totals for ALL emission points and not one particular point

You can also enter comments or a description of each emission point in the grey cell over the emission point

In order to add another pollutant in a particular section you must click the ADD NEW ROW button

If you have made a mistake and wish to remove the last row entered then click the DELETE LAST ROW button

If you have no releases for a particular section then do not enter any pollutant or related data into the section - |

Treatment & Transfers of Waste

This worksheet allows you to enter onsite treatment and offsite transfers of waste

Begin by selecting the transfer destination from the dropdown list (valid entries are Within the Country or To Ot

Next, select the EWC (European Waste Code) by double-clicking on the EWC cell for the record you are filling

The EWC reference worksheet will be displayed

Select the appropriate chapters to build the waste code (These are broken into Group, SubGroup and Code on

To select a code double-click on it where you will then be brought to the next section of codes under the select

Appropriate codes for the selected values will be highlighted in blue

Repeat this for the subsequent levels to retrieve the full six-digit Waste Code

The code will then be returned to the Treatment & Transfers of Waste sheet that is being filled out

If you already know the full six digit EWC then just scroll down the Waste Reference sheet and double click on

The Hazardous value for the entered EWC will be displayed

Enter a quantity for the particular EWC (Tonnes/year)

Enter a description for the waste

Next, select a Waste Treatment Operation by double-clicking on the cell under this section

The Waste Treatment Operation reference worksheet will be displayed

Select the appropriate code by double-clicking on it

The code will then be returned to the Treatment & Transfers of Waste sheet that is being filled out

Select a method used from the dropdown lists in the Method Used section of the sheet

Select a Location of Treatment from the dropdown list (valid values are Onsite in Ireland, Offsite in Ireland and

Enter the name of the recoverer/disposer

Enter the address of the recoverer/disposer

Enter the final address of the recovery/disposal site

Enter the Licence / Permit No. of the final recovery/disposal site

In order to add another waste code record you must click the ADD NEW ROW button

If you have made a mistake and wish to remove the last row entered then click the DELETE LAST ROW button

If you have no waste data to enter then do not enter any waste or related data into this worksheet - leave it blank

Ref. - NACE Codes

This worksheet contains reference information for NACE codes

Ref. PRTR Activities

This worksheet contains reference information for PRTR Class Activities

Ref. PRTR Pollutants

This worksheet contains reference information for PRTR Pollutants

Ref. Licensed Pollutants

This worksheet contains reference information for Licensed Pollutants

Ref. Waste Codes

This worksheet contains reference information for EWC (European Waste Codes)

Ref. Recoverer/Disposer Codes

This worksheet contains reference information for Recoverer and Disposer Codes

Ref. Methods Used

This worksheet contains reference information for Methods Used

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Wastewater treatment or sewer

[Click here for Methods Used Reference](#)

Fugitive section
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[Click here for NACE Codes Reference](#)

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[Click here for PRTR Class Activities Reference](#)

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[Click here for Licensed Pollutants Reference](#)

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[Click here for Waste Codes Reference](#)

[Back to top](#)

[Click here for Recoverer/Disposer Codes Reference](#)

[Back to top](#)

[Click here for Methods Used Reference](#)

Please enter details below then c

Name of Recoverer / Disposer / Next Destination Facility
Licence / Permit No. of Recoverer / Disposer / Next Destination Facility
Address of Recoverer / Disposer
Address 1 / Street name
Address 2 / Building number
Address 3 / City name
Address 4 / Postcode
Country

Alternatively, please select from

Name and License / Permit No.

Enva,W0184-01
Greenstar,WO-103-81
Dillon Waste,WFP KY 10-001
Walker Recycling Services,WMP04
Rehab Recycling,08/04 (Reg 635)
Regen Waste,LN/10/50/M
Clean Ireland Recycling,W0253-01
Mr.Binman,WFP-TS-10-0006-01
Crumb Rubber Dromiskin Dundalk
KMK,W0113-04
Cookstown Recycling,Charity
Donohill Landfill,W0074-03
P K Rubber,WFP-CK10-0059-01
Clonmel Waste Disposal Ltd.,WCF
Ashgrove Recycling,W0147-01
Ryan Brothers Ltd.,NWCPO-08-10

Click the OK button

Clonmel Waste Disposal Ltd.
WCPKK/025/02
/ Next Destination Facility
Lawless Town
.
Clonmel
Tipperary
Ireland

Please enter a full stop field if there is no data

previously entered details by clicking on the row below then click OK

Address of Recoverer / Disposer / Broker

-,Ireland
-,Ireland
- The Kerries,..,Tralee,Co. Kerry,Ireland
-,Ireland
-,Ireland
- Carnbarne Industrial Estate,Shepard's Drive,Newry,Down,United Kingdom
- Ballingun West,Cree,Clare,..,Ireland
-,Ireland
-,Ireland
-,Ireland
-,United Kingdom
-,Ireland
- Roovesmore,..,Coachford,Cork,Ireland
- Lawless Town,..,Clonmel,Tipperary,Ireland
- Churchfield Ind Est,..,Churchfield,Cork,Ireland
- Mill Road,..,Thurles,Tipperary,Ireland

) "." in an address
to be entered

Please enter details below then click

Name of Final Recoverer / Disposer
License / Permit No. of Final Recoverer / Disposer
Address of Final Recoverer / Disposer
Address 1 / Street name
Address 2 / Building number
Address 3 / City name
Address 4 / Postcode
Country
Address of Actual Recovery / Disposal
Address 1 / Street name
Address 2 / Building number
Address 3 / City name
Address 4 / Postcode
Country

Alternatively, please select from previous

- Name and License / Permit No.
- Enva,W0184-01
- Geocycle,38.152/BP
- KMK,W0114

Click the OK button

Geocycle
38.152/BP
Disposer
Feneffe
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.
.
Belgium
Final Site
.
.
.
.
Belgium

Previously entered details by clicking on the row below then click

Address of Final Recoverer / Disposer

Enva, Clonimam ind est, Portlaoise, Ireland

Feneffe, Belgium

KMK, Tullamore, Ireland

Please enter a full stop "." in an address field if there is no data to be entered

OK

Address of Actual Recovery / Disposal Site

Enva, Clonimam ind est, Portlaoise, Ireland

,, , , , , Belgium

KMK, , Tullamore, , Ireland

Previous years data is correct as at 15/04/2015 11:01

Release_To	Year	Pollutant_Number	Pollutant_Description	M_C_E	Method_Code
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Method_Description	Total
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Previous years data is correct as at 15/04/2015 11:01

Year	Destination	EWC	Hazardous	Total
2013	Within the Country	13 08 99	Y	0.98
2013	Within the Country	15 01 01	N	22.48
2013	Within the Country	15 01 01	N	0
2013	Within the Country	15 01 02	N	84.84
2013	Within the Country	15 01 04	N	2.12
2013	Within the Country	15 01 04	N	1.04
2013	To Other Countries	15 01 06	N	19.16
2013	Within the Country	15 01 06	N	91.12
2013	Within the Country	15 01 06	N	1013.84
2013	Within the Country	15 01 06	N	0
2013	Within the Country	16 01 03	N	5.66
2013	To Other Countries	16 05 04	Y	0
2013	Within the Country	16 06 02	Y	0.52
2013	To Other Countries	16 06 05	N	0.46
2013	Within the Country	17 02 02	N	5.92
2013	Within the Country	17 08 02	N	27.6
2013	Within the Country	17 09 04	N	71.52
2013	Within the Country	20 01 01	N	27.8
2013	Within the Country	20 01 02	N	40.88
2013	To Other Countries	20 01 10	N	27.12
2013	Within the Country	20 01 21	Y	0.44
2013	To Other Countries	20 01 27	Y	1.3
2013	To Other Countries	20 01 35	Y	141.18
2013	Within the Country	20 01 38	N	357.44
2013	Within the Country	20 01 39	N	2.92
2013	Within the Country	20 01 40	N	61.9
2013	Within the Country	20 03 01	N	3743.41
2013	Within the Country	20 03 07	N	18.16

Description

Waste Oil

paper and cardboard packaging

paper and cardboard packaging

plastic packaging

metallic packaging

metallic packaging

mixed packaging

mixed packaging

mixed packaging

mixed packaging

end-of-life tyres

gases in pressure containers (including halons) containing dangerous substances

Ni-Cd batteries

other batteries and accumulators

glass

gypsum-based construction materials other than those mentioned in 17 08 01

mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 0

paper and cardboard

glass

clothes

fluorescent tubes and other mercury-containing waste

paint, inks, adhesives and resins containing dangerous substances

discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 :

wood other than that mentioned in 20 01 37

plastics

metals

mixed municipal waste

Mattresses

TreatmentOperation	M_C_E	MethodCode	TreatmentLocation
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Abroad
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland
R5	M	Weighed	Offsite in Ireland
R13	M	Weighed	Abroad
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Abroad
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Abroad
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Abroad
R13	M	Weighed	Abroad
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland
D13	M	Weighed	Offsite in Ireland
R13	M	Weighed	Offsite in Ireland

Name_Licence_Permit_No

Enva,W0184-01
Greenstar,WO-103-81
Dillon Waste,WFP KY 10-001
Walker Recycling Services,WMP044B
Rehab Recycling,08/04 (Reg 635)
Rehab Recycling,08/04 (Reg 635)
Regen Waste,LN/10/50/M
Dillon Waste,WFP KY 10-001
Clean Ireland Recycling,W0253-01
Mr.Binman,WFP-TS-10-0006-01
Crumb Rubber Dromiskin Dundalk Co.Louth,WFP-LH-10-0005-01
Enva,W0184-01
KMK,W0113-04
KMK,W0113-04
Greenstar,WO-103-81
Greenstar,WO-103-81
Greenstar,WO-103-81
Greenstar,WO-103-81
Rehab Recycling,08/04 (Reg 635)
Cookstown Recycling,Charity
KMK,W0113-04
Enva,W0184-01
KMK,W0113-04
Donohill Landfill,W0074-03
Greenstar,WO-103-81
Greenstar,WO-103-81
Donohill Landfill,W0074-03
Mr.Binman,WFP-TS-10-0006-01

Address

.....,Ireland

.....,Ireland

The Kerries,..,Tralee,Co. Kerry,Ireland

.....,Ireland

.....,Ireland

.....,Ireland

Carnbarne Industrial Estate,Shepard's Drive,Newry,Down,United Kingdom

The Kerries,..,Tralee,Co. Kerry,Ireland

Ballingun West,Cree,Clare,..,Ireland

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Final Recoverer Disposer**Actual Address Final Destination**

Enva,W0184-01,Enva,Clonimam ind est,Portlaoise,..,Ireland

Enva,Clonimam ind est,..,Portlaoise,Ireland

Geocycle,38.152/BP,Feneffe,,,,,Belgium

,,,,,Belgium

KMK,W0114,KMK,..,Tullamore,..,Ireland

KMK,..,Tullamore,..,Ireland

Geocycle,38.152/BP,Feneffe,,,,,Belgium

,,,,,Belgium

KMK,W0114,KMK,..,Tullamore,..,Ireland

KMK,..,Tullamore,..,Ireland

Geocycle,38.152/BP,Feneffe,,,,,Belgium

,,,,,Belgium

Geocycle,38.152/BP,Feneffe,,,,,Belgium

,,,,,Belgium

Previous years data is correct as at 15/04/2015 11:01

Type of Waste	Previous Year Total
Hazardous Waste inside the country for disposal	0
Hazardous Waste inside the country for recovery	1.94
Hazardous Waste outside the country for disposal	0
Hazardous Waste outside the country for recovery	142.48
Non-Hazardous Waste for disposal	3743.41
Non-Hazardous Waste for recovery	1881.98

Current Year Total	Percentage Change
0	0
2.46	26.80412371
0	0
154.54	8.464345873
5351.91	42.96884392
2387.45	26.85841507