

## Annual Environmental Report 2018



<b>License No.</b>	W0227-01
<b>Reporting Period:</b>	1 <sup>st</sup> January to 31 <sup>st</sup> December 2018
<b>Submission Deadline:</b>	31 <sup>st</sup> March 2019

## Declaration

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

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Kind Regards,



Niall Lawlor

Director

Lawlor Brother's (Waste Disposal) Ltd. t/a Access Waste Recycling

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## **1. Introduction**

The following information represents the environmental performance of Lawlor Brothers (Waste Disposal) Ltd. t/a Access Waste Recycling in the period from the 1<sup>st</sup> of January 2018 to 31<sup>st</sup> of December 2018.

We welcome the Agency's AER reporting templates which have been used for this AER. The majority of our emissions monitoring in 2018 was compliant, with the exception of some issues relating to elevated suspended solids, COD and ammonia levels in storm water, which have since been resolved. As part of our environmental management programme for 2019, these issues will be monitored further to ensure we maintain a satisfactory level of compliance. Also an up-to-date organisational chart is enclosed in this report which depicts the roles and responsibilities of our environmental management team in 2018.

Since receiving our EPA license (W0227-01) in 2007, we have continued with our commitment to minimize potential environmental impact as a result of our operations and to develop our business in a sustainable manner. We have maintained a level of reasonable environmental compliance throughout the year while continuing to express a desire to cooperate fully with the Agency on all matters.

We look forward to meeting the further challenges presented to us in 2019 and working closely with the Agency to overcome same.

Kind Regards,



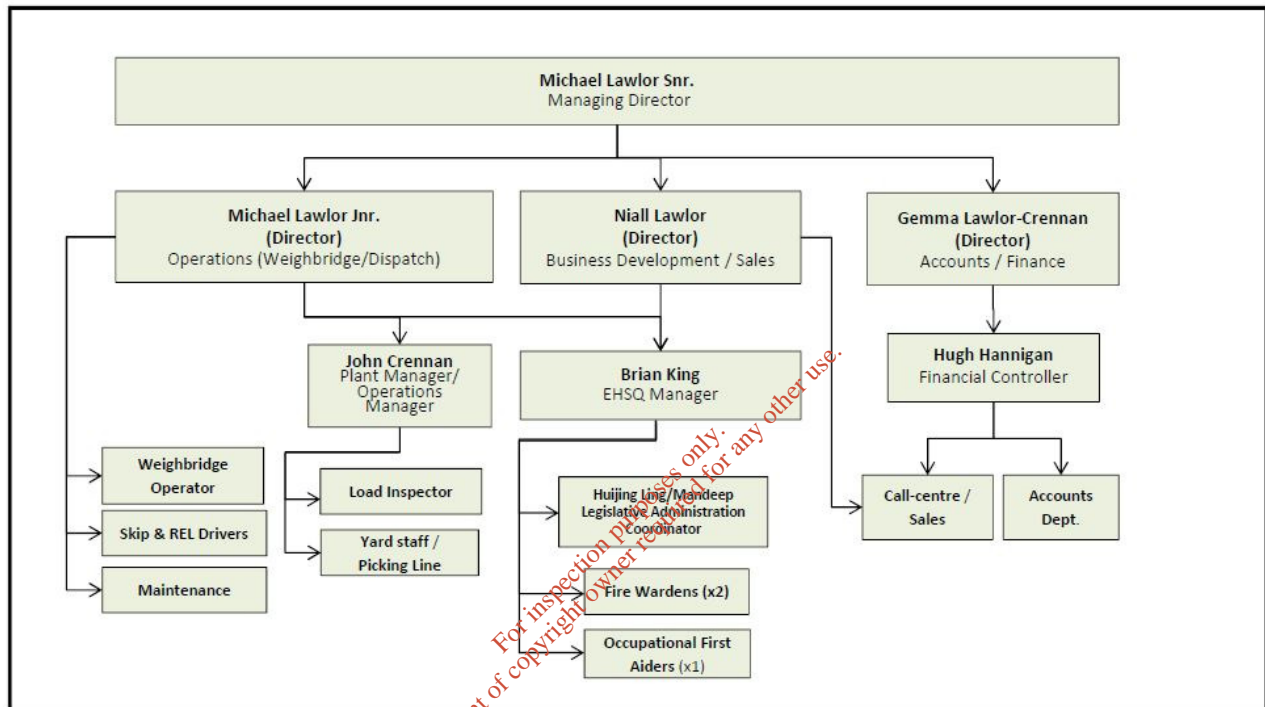
Niall Lawlor

Director

Lawlor Brother's (Waste Disposal) Ltd. t/a Access Waste Recycling

## 2. Environmental Management - Organisational Chart

Ms. Huijing Ling, the Legislative Administration Coordinator who assists our EHSQ Manager Brian King in communicating with EPA as well as other regulatory authorities started her maternity leave from September 2017 and was back to work in September 2018. During this period, the position was covered by Ms. Mandeep Kaur Singh. The company's organisational chart in 2018 is as follows;



### **3. Summary Information**

The following AER templates provided by the Agency have been completed where applicable and are enclosed;

- 3.1 Facility Summary Information
- 3.2 Air
- 3.3 Water & Wastewater
- 3.4 Bund testing
- 3.5 GW-Soil
- 3.6 ELRA
- 3.7 EMP
- 3.8 Noise
- 3.9 Resource-Energy
- 3.10 Complaints-incidents
- 3.11 Waste
- 3.12 Waste Transfer 2018 data

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## Access Waste Recycling


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### 3.1. Facility Summary Information

Facility Information Summary	
AER Reporting Year	2018
Licence Register Number	W0227-01
Name of site	Lawlor Brothers (Waste Disposal) Ltd. T/A Access Waste Recycling
Site Location	Unit 28 JFK Industrial Estate, Naas Road, Dublin 12
NACE Code	3832
Class/Classes of Activity	Class 11, 12 & 13 (Third Schedule of Waste Management Act 1996-2005) Class 2, 3, 4 & 13 (Fourth Schedule of Waste Management Act 1996-2005)
National Grid Reference (6E, 6 N)	+53° 19' 40.13", -6° 21' 24.57"
<p>A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year <b>and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.</b></p> <p>Acceptance and pre-sorting of non-hazardous household, commercial, industrial and C&amp;D skip wastes.</p> <p>Mechanical sorting achieved by way of trommel, screening, windshifters and picking line. Segregated fractions are then sent offsite to suitably licensed facilities for further recycling/recovery/disposal. Manual sorting implemented to segregate clean soil &amp; stones and concrete &amp; bricks.</p> <p>Monitoring is carried out to measure dust levels, stormwater and foulwater emissions. Stormwater trigger limits have been set up and approved by EPA since September 2014. Both storm and foulwater drainage systems are fitted with interceptors and are subject to periodic integrity testing as part of PM schedule. Noise monitoring is carried out annually in October.</p> <p>Suspended solids, COD and ammonia in stormwater sampled by EPA on 14/03/2018 exceeded trigger limits and suspended solids remained higher than limit until 13/04/2018.</p> <p>All waste entering and leaving site is subject to checks and weighing at weighbridge with all records available.</p>	

#### Declaration:

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

	29/03/2019
Signature Group/Facility manager (or nominated, suitably qualified and experienced deputy)	Date

## Access Waste Recycling

AER 2018

### 3.2. Air

AIR-summary template	Lic No:	W0227-01	Year	2018
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Answer all questions and complete all tables where relevant

- 1 Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables

Additional information	
No	

#### Periodic/Non-Continuous Monitoring

- 2 Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below

- 3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist?

[Basic air monitoring checklist](#)

[AGN2](#)

No	
Yes	

**Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)**

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
DM1	Dust	Four times a year (R1)	350	Monthly average < ELV	177.38	mg/m2/day	yes	Bergerhoff Gauge		
DM2	Dust	Four times a year (R1)	350	Monthly average < ELV	48.93	mg/m2/day	yes	Bergerhoff Gauge		
DM3	Dust	Four times a year (R1)	350	Monthly average < ELV	112.45	mg/m2/day	yes	Bergerhoff Gauge		



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DM1	Dust	Four times a year (R2)	350	Monthly average < ELV	262.07	mg/m2/day	yes	Bergerhoff Gauge		
DM2	Dust	Four times a year (R2)	350	Monthly average < ELV	103.98	mg/m2/day	yes	Bergerhoff Gauge		
DM3	Dust	Four times a year (R2)	350	Monthly average < ELV	122.33	mg/m2/day	yes	Bergerhoff Gauge		
DM1	Dust	Four times a year (R3)	350	Monthly average < ELV	119.98	mg/m2/day	yes	Bergerhoff Gauge		
DM2	Dust	Four times a year (R3)	350	Monthly average < ELV	76.69	mg/m2/day	yes	Bergerhoff Gauge		
DM3	Dust	Four times a year (R3)	350	Monthly average < ELV	170.79	mg/m2/day	yes	Bergerhoff Gauge		
DM1	Dust	Four times a year (R4)	350	Monthly average < ELV	319	mg/m2/day	yes	Bergerhoff Gauge		
DM2	Dust	Four times a year (R4)	350	Monthly average < ELV	87	mg/m2/day	yes	Bergerhoff Gauge		
DM3	Dust	Four times a year (R4)	350	Monthly average < ELV	74	mg/m2/day	yes	Bergerhoff Gauge		

Note 1: Volumetric flow shall be included as a reportable parameter

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### Continuous Monitoring

- 4 Does your site carry out continuous air emissions monitoring?  
If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)

No	
----	--

- 5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below

SELECT	
--------	--

- 6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?

SELECT	
--------	--

- 7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below

SELECT	
--------	--

**Table A2: Summary of average emissions -continuous monitoring**

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
	SELECT			SELECT	SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

note 1: Volumetric flow shall be included as a reportable parameter.

**Table A3: Abatement system bypass reporting table**

[Bypass protocol](#)

Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action

\* this should include all dates that an abatement system bypass occurred

\*\* an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link

## Solvent use and management on site

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? If yes please fill out tables A4 and A5

No

**Table A4: Solvent Management Plan Summary****Total VOC Emission limit value**[Solvent regulations](#)

Please refer to linked solvent regulations to complete table 5 and 6

Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as % of solvent input	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance
					SELECT
					SELECT

**Table A5: Solvent Mass Balance summary**

(I) Inputs (kg)		(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in waste	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by-	Solvents destroyed onsite through	Total emission of Solvent to air (kg)
							Total	

## Access Waste Recycling

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### 3.3. Water & Wastewater

<b>AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)</b>	Lic No: W0227-01	Year 2018
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Additional information	
<p>1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If <b>you do not have</b> licenced emissions you <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections</p>	Yes
<p>2 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising <u>only</u> any evidence of contamination noted during visual inspections</p>	Yes

**Table W1 Storm water monitoring**

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

\*trigger values may be agreed by the Agency outside of licence conditions

**Table W2 Visual inspections-Please only enter details where contamination was observed.**

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
			SELECT		
			SELECT		

#### Licensed Emissions to water and /or wastewater(sewer)-periodic monitoring (non-continuous)

<p>3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below</p>	No	Additional information
<p>4 Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box</p>	Yes	

[External /Internal Lab](#)  
[Quality checklist](#)     [Assessment of results checklist](#)

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Table W3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof <sup>Note 2</sup>	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
FW9	Wastewater/Sewer	pH	discrete	Quarterly (Q1)	Quarterly	6-10	No pH value shall deviate from the specified range.	7.5	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 4500 - H+ B		
FW9	Wastewater/Sewer	pH	discrete	Quarterly (Q2)	Quarterly	6-10	No pH value shall deviate from the specified range.	7.7	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 4500 - H+ B		
FW9	Wastewater/Sewer	pH	discrete	Quarterly (Q3)	Quarterly	6-10	No pH value shall deviate from the specified range.	7.4	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 4500 - H+ B		
FW9	Wastewater/Sewer	pH	discrete	Quarterly (Q4)	Quarterly	6-10	No pH value shall deviate from the specified range.	7.3	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 4500 - H+ B		
FW9	Wastewater/Sewer	COD	discrete	Quarterly (Q1)	Quarterly	3000	All results < 1.2 x ELV	39	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"	Method 5220 D		
FW9	Wastewater/Sewer	COD	discrete	Quarterly (Q2)	Quarterly	3000	All results < 1.2 x ELV	<5	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"	Method 5220 D		
FW9	Wastewater/Sewer	COD	discrete	Quarterly (Q3)	Quarterly	3000	All results < 1.2 x ELV	19	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"	Method 5220 D		
FW9	Wastewater/Sewer	COD	discrete	Quarterly (Q4)	Quarterly	3000	All results < 1.2 x ELV	96	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"	Method 5220 D		
FW9	Wastewater/Sewer	BOD	discrete	Quarterly (Q1)	Quarterly	1000	All results < 1.2 x ELV	3	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 5210 B		
FW9	Wastewater/Sewer	BOD	discrete	Quarterly (Q2)	Quarterly	1000	All results < 1.2 x ELV	<2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 5210 B		
FW9	Wastewater/Sewer	BOD	discrete	Quarterly (Q3)	Quarterly	1000	All results < 1.2 x ELV	13	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 5210 B		
FW9	Wastewater/Sewer	BOD	discrete	Quarterly (Q4)	Quarterly	1000	All results < 1.2 x ELV	21	mg/L	yes	Dissolved Oxygen Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 5210 B		

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FW9	Wastewater/Sewer	Suspended Solids	discrete	Quarterly (Q1)	Quarterly	1000	All results < 1.2 x ELV	91	mg/L	yes	Gravimetric analysis	APHA / AWWA "Standard Methods"	Method 2540 D		
FW9	Wastewater/Sewer	Suspended Solids	discrete	Quarterly (Q2)	Quarterly	1000	All results < 1.2 x ELV	8	mg/L	yes	Gravimetric analysis	APHA / AWWA "Standard Methods"	Method 2540 D		
FW9	Wastewater/Sewer	Suspended Solids	discrete	Quarterly (Q3)	Quarterly	1000	All results < 1.2 x ELV	28	mg/L	yes	Gravimetric analysis	APHA / AWWA "Standard Methods"	Method 2540 D		
FW9	Wastewater/Sewer	Suspended Solids	discrete	Quarterly (Q4)	Quarterly	1000	All results < 1.2 x ELV	14	mg/L	yes	Gravimetric analysis	APHA / AWWA "Standard Methods"	Method 2540 D		
FW9	Wastewater/Sewer	Mineral oils	discrete	Quarterly (Q1)	Quarterly	10	All results < 1.2 x ELV	0.487	mg/L	yes	GC-FID	US EPA	Method 8015B		
FW9	Wastewater/Sewer	Mineral oils	discrete	Quarterly (Q2)	Quarterly	10	All results < 1.2 x ELV	<0.0025	mg/L	yes	GC-FID	US EPA	Method 8015B		
FW9	Wastewater/Sewer	Mineral oils	discrete	Quarterly (Q3)	Quarterly	10	All results < 1.2 x ELV	0.688	mg/L	yes	GC-FID	US EPA	Method 8015B		
FW9	Wastewater/Sewer	Mineral oils	discrete	Quarterly (Q4)	Quarterly	10	All results < 1.2 x ELV	<0.0025	mg/L	yes	GC-FID	US EPA	Method 8015B		
FW9	Wastewater/Sewer	Total phosphorus	discrete	Quarterly (Q1)	Quarterly	100	All results < 1.2 x ELV	0.094	mg/L	yes	Digestion + Spectrophotometry	APHA / AWWA "Standard Methods"	Method 4500 - P E		
FW9	Wastewater/Sewer	Total phosphorus	discrete	Quarterly (Q2)	Quarterly	100	All results < 1.2 x ELV	0.059	mg/L	yes	Digestion + Spectrophotometry	APHA / AWWA "Standard Methods"	Method 4500 - P E		
FW9	Wastewater/Sewer	Total phosphorus	discrete	Quarterly (Q3)	Quarterly	100	All results < 1.2 x ELV	0.066	mg/L	yes	Digestion + Spectrophotometry	APHA / AWWA "Standard Methods"	Method 4500 - P E		
FW9	Wastewater/Sewer	Total phosphorus	discrete	Quarterly (Q4)	Quarterly	100	All results < 1.2 x ELV	0.141	mg/L	yes	Digestion + Spectrophotometry	APHA / AWWA "Standard Methods"	Method 4500 - P E		
FW9	Wastewater/Sewer	Detergents (as MBAS)	discrete	Quarterly (Q1)	Quarterly	100	All results < 1.2 x ELV	0.071	mg/L	yes	Solvent Extraction/ Colorimetry	APHA / AWWA "Standard Methods"	Method 2540 D		
FW9	Wastewater/Sewer	Detergents (as MBAS)	discrete	Quarterly (Q2)	Quarterly	100	All results < 1.2 x ELV	0.105	mg/L	yes	Solvent Extraction/ Colorimetry	APHA / AWWA "Standard Methods"	Method 2540 D		
FW9	Wastewater/Sewer	Detergents (as MBAS)	discrete	Quarterly (Q3)	Quarterly	100	All results < 1.2 x ELV	0.159	mg/L	yes	Solvent Extraction/ Colorimetry	APHA / AWWA "Standard Methods"	Method 2540 D		
FW9	Wastewater/Sewer	Detergents (as MBAS)	discrete	Quarterly (Q4)	Quarterly	100	All results < 1.2 x ELV	0.076	mg/L	yes	Solvent Extraction/ Colorimetry	APHA / AWWA "Standard Methods"	Method 2540 D		
FW9	Wastewater/Sewer	Fats, Oils and Greases	discrete	Quarterly (Q1)	Quarterly	100	All results < 1.2 x ELV	<1	mg/L	yes	Solvent Extraction/ Gravimetry	APHA / AWWA "Standard Methods"	Method 5520 B		
FW9	Wastewater/Sewer	Fats, Oils and Greases	discrete	Quarterly (Q2)	Quarterly	100	All results < 1.2 x ELV	<1	mg/L	yes	Solvent Extraction/ Gravimetry	APHA / AWWA "Standard Methods"	Method 5520 B		
FW9	Wastewater/Sewer	Fats, Oils and Greases	discrete	Quarterly (Q3)	Quarterly	100	All results < 1.2 x ELV	<1	mg/L	yes	Solvent Extraction/ Gravimetry	APHA / AWWA "Standard Methods"	Method 5520 B		
FW9	Wastewater/Sewer	Fats, Oils and Greases	discrete	Quarterly (Q4)	Quarterly	100	All results < 1.2 x ELV	<1	mg/L	yes	Solvent Extraction/ Gravimetry	APHA / AWWA "Standard Methods"	Method 5520 B		

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SW1	Water	pH	discrete	Quarterly (Q1)	Quarterly	6-9	No pH value shall deviate from the specified range.	7.6	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 4500 - H+ B		
SW1	Water	pH	discrete	Quarterly (Q2)	Quarterly	6-9	No pH value shall deviate from the specified range.	8.08	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 4500 - H+ B		
SW1	Water	pH	discrete	Quarterly (Q3)	Quarterly	6-9	No pH value shall deviate from the specified range.	8.1	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 4500 - H+ B		
SW1	Water	pH	discrete	Quarterly (Q4)	Quarterly	6-9	No pH value shall deviate from the specified range.	7.66	pH units	yes	pH Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 4500 - H+ B		
SW1	Water	Conductivity	discrete	Quarterly (Q1)	Quarterly	not specified	All results < 1.2 x ELV	473	µS/cm @20oC	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 2510 B		
SW1	Water	Conductivity	discrete	Quarterly (Q2)	Quarterly	not specified	All results < 1.2 x ELV	550	µS/cm @20oC	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 2510 B		
SW1	Water	Conductivity	discrete	Quarterly (Q3)	Quarterly	not specified	All results < 1.2 x ELV	175	µS/cm @20oC	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 2510 B		
SW1	Water	Conductivity	discrete	Quarterly (Q4)	Quarterly	not specified	All results < 1.2 x ELV	170	µS/cm @20oC	yes	Conductivity Meter (Electrode)	APHA / AWWA "Standard Methods"	Method 2510 B		
SW1	Water	COD	discrete	Quarterly (Q1)	Quarterly	80	All results < 1.2 x ELV	26	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"	Method 5220 D		
SW1	Water	COD	discrete	Quarterly (Q2)	Quarterly	80	All results < 1.2 x ELV	<5	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"	Method 5220 D		
SW1	Water	COD	discrete	Quarterly (Q3)	Quarterly	80	All results < 1.2 x ELV	24	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"	Method 5220 D		
SW1	Water	COD	discrete	Quarterly (Q4)	Quarterly	80	All results < 1.2 x ELV	7	mg/L	yes	Spectrophotometry (Colorimetry)	APHA / AWWA "Standard Methods"	Method 5220 D		
SW1	Water	Suspended Solids	discrete	Quarterly (Q1)	Quarterly	50	All results < 1.2 x ELV	80	mg/L	no (if no please enter details in comments box)	Filtration/ Drying @104C	APHA / AWWA "Standard Methods"	Method 2540 D		Not compliant due to sands used to melt heavy snow onsite, sent to EPA as an incident
SW1	Water	Suspended Solids	discrete	Quarterly (Q2)	Quarterly	50	All results < 1.2 x ELV	<2	mg/L	yes	Filtration/ Drying @104C	APHA / AWWA "Standard Methods"	Method 2540 D		

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SW1	Water	Suspended Solids	discrete	Quarterly (Q3)	Quarterly	50	All results < 1.2 x ELV	5	mg/L	yes	Filtration/ Drying @104C	APHA / AWWA "Standard Methods"	Method 2540 D		
SW1	Water	Suspended Solids	discrete	Quarterly (Q4)	Quarterly	50	All results < 1.2 x ELV	<2	mg/L	yes	Filtration/ Drying @104C	APHA / AWWA "Standard Methods"	Method 2540 D		
SW1	Water	Mineral oils	discrete	Quarterly (Q1)	Quarterly	not specified	All results < 1.2 x ELV	<0.0025	mg/L	yes	GC-FID	US EPA	Method 8015B		
SW1	Water	Mineral oils	discrete	Quarterly (Q2)	Quarterly	not specified	All results < 1.2 x ELV	<0.0025	mg/L	yes	GC-FID	US EPA	Method 8015B		
SW1	Water	Mineral oils	discrete	Quarterly (Q3)	Quarterly	not specified	All results < 1.2 x ELV	<0.0025	mg/L	yes	GC-FID	US EPA	Method 8015B		
SW1	Water	Mineral oils	discrete	Quarterly (Q4)	Quarterly	not specified	All results < 1.2 x ELV	<0.0025	mg/L	yes	GC-FID	US EPA	Method 8015B		
SW1	Water	Ammonia (as N)	discrete	Quarterly (Q1)	Quarterly	1	All results < 1.2 x ELV	0.09	mg/L	yes	Spectropho metry (Colorimetry)	APHA / AWWA "Standard Methods"	Method 4500 NH3 F		
SW1	Water	Ammonia (as N)	discrete	Quarterly (Q2)	Quarterly	1	All results < 1.2 x ELV	0.14	mg/L	yes	Spectropho metry (Colorimetry)	APHA / AWWA "Standard Methods"	Method 4500 NH3 F		
SW1	Water	Ammonia (as N)	discrete	Quarterly (Q3)	Quarterly	1	All results < 1.2 x ELV	0.02	mg/L	yes	Spectropho metry (Colorimetry)	APHA / AWWA "Standard Methods"	Method 4500 NH3 F		
SW1	Water	Ammonia (as N)	discrete	Quarterly (Q4)	Quarterly	1	All results < 1.2 x ELV	0.02	mg/L	yes	Spectropho metry (Colorimetry)	APHA / AWWA "Standard Methods"	Method 4500 NH3 F		

Note 1: Volumetric flow shall be included as a reportable parameter

Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards



Continuous monitoring

5 Does your site carry out continuous emissions to water/sewer monitoring?

No	
----	--

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below

SELECT	
SELECT	

7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

SELECT	
SELECT	

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

Table W4: Summary of average emissions -continuous monitoring

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in reporting year	Comments
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

note 1: Volumetric flow shall be included as a reportable parameter.

Table W5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						SELECT	

\*Measures taken or proposed to reduce or limit bypass frequency

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### 3.4. Bund testing

<b>Bund/Pipeline testing template</b>	Lic No:	W0227-01	Year	2018
---------------------------------------	---------	----------	------	------

#### Bund testing

dropdown menu click to see option

#### Additional information

Are you required by your licence to undertake integrity testing on bunds and containment structures? if yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to **all bunds which failed the integrity test-all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds)

1 Please provide integrity testing frequency period

Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)

4 How many bunds are on site?

5 How many of these bunds have been tested within the required test schedule?

6 How many mobile bunds are on site?

7 Are the mobile bunds included in the bund test schedule?

8 How many of these mobile bunds have been tested within the required test schedule?

9 How many sumps on site are included in the integrity test schedule?

10 How many of these sumps are integrity tested within the test schedule?

Please list any sump integrity failures in table B1

11 Do all sumps and chambers have high level liquid alarms?

12 If yes to Q11 are these failsafe systems included in a maintenance and test schedule?

13 Is the Fire Water Retention Pond included in your integrity test programme?

Yes	
3 years	
Yes	
10	
10	
0	
N/A	
N/A	
1	
1	
Yes	
Yes	
N/A	

**Table B1:** Summary details of bund /containment structure integrity test

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest (if in current reporting year)
No Failures	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		

\* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

Has integrity testing been carried out in accordance with licence

#### Commentary

Yes	
Yes	
Yes	

15 requirements and are all structures tested in line with BS8007/EPA [bundings and storage guidelines](#)

16 Are channels/transfer systems to remote containment systems tested?

17 Are channels/transfer systems compliant in both integrity and available volume?

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Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing\* on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all underground structures and pipelines on site **which**

- 1 failed the integrity test and all which have not been tested withing the integrity test period as specified
- 2 Please provide integrity testing frequency period

\*please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

Yes	
3 years	

Table B2: Summary details of pipeline/underground structures integrity test

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
No Failures	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

Please use commentary for additional details not answered by tables/ questions above

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### 3.5. GW-Soil

<b>Groundwater/Soil monitoring template</b>	Lic No:	W0227-01	Year	2018
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		Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	no	Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
2 Are you required to carry out soil monitoring as part of your licence requirements?	no	
3 Do you extract groundwater for use on site? If yes please specify use in comment section	no	
4 Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template <a href="#">Groundwater monitoring template</a> Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	N/A	Please enter interpretation of data here
5 Is the contamination related to operations at the facility (either current and/or historic)	N/A	
6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	N/A	
7 Please specify the proposed time frame for the remediation strategy	N/A	
8 Is there a licence condition to carry out/update ELRA for the site?	N/A	
9 Has any type of risk assesment been carried out for the site?	N/A	
10 Has a Conceptual Site Model been developed for the site?	N/A	
11 Have potential receptors been identified on and off site?	N/A	
12 Is there evidence that contamination is migrating offsite?	N/A	

**Table 1: Upgradient Groundwater monitoring results**

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
							SELECT			SELECT
							SELECT			SELECT

.+ where average indicates arithmetic mean

.++ maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
							SELECT			SELECT
							SELECT			SELECT

\*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.

[Groundwater monitoring template](#)

More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance [Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#). (see the link in G31)

\*\*Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)

<a href="#">Surface water EQS</a>	<a href="#">Groundwater regulations GTV's</a>	<a href="#">Drinking water (private supply) standards</a>	<a href="#">Drinking water (public supply) standards</a>	<a href="#">Interim Guideline Values (IGV)</a>
-----------------------------------	---	---	--	--

Table 3: Soil results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit
							SELECT
							SELECT

Where additional detail is required please enter it here in 200 words or less

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### 3.6. ELRA

Environmental Liabilities template			Lic No:	W0227-01	Year	2018
<a href="#">Click here to access EPA guidance on Environmental Liabilities and Financial provision</a>						
					Commentary	
1	ELRA initial agreement status	Submitted and agreed by EPA				
2	ELRA review status	Review required and completed				
3	Amount of Financial Provision cover required as determined by the latest ELRA	€725,935				
4	Financial Provision for ELRA status	Submitted and agreed by EPA				
5	Financial Provision for ELRA - amount of cover	€ 1,000,000 + €725,935				
6	Financial Provision for ELRA - type	Environmental Impairment Liability insurance				
7	Financial provision for ELRA expiry date	11/05/2019				
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA				
9	Closure plan review status	Review required and completed				
10	Financial Provision for Closure status	Submitted and agreed by EPA				
11	Financial Provision for Closure - amount of cover	€167,441				
12	Financial Provision for Closure - type	bond				
13	Financial provision for Closure expiry date	N/A				

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### 3.7. EMP

Environmental Management Programme/Continuous Improvement Programme template			Lic No:	W0227-01	Year	2018
Highlighted cells contain dropdown menu click to view			Additional Information			
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	Certified to ISO 14001			
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes				
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes				
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes				

#### Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Water	Review stormwater trigger limits (suspended solids, COD and ammonia)	90	Data set of uncontaminated stormwater monitoring results has been gathered until it's sufficient to review stormwater trigger limits	Section Head	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Implement Waste Storage Plan	80	Waste storage bays were seperated by concrete blocks; waste streams were stored on site in designated areas; segregated wastes were removed off-site as promptly as possible to reduce total amount of waste stored on site		
Materials Handling/Storage/Bunding	Improve waste storage on-site (wood, C&D fines, tyres, mattresses etc.)	85	Waste streams were stored on site in designated areas; waste haulier and authorised destination facilities have been contracted to ensure wastes were removed off-site promptly	Section Head	Improved Environmental Management Practices

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Additional improvements	Improve nuisance control	80	Yard housekeeping was implemented according to internal SOPs; SW and FW gullies check was added to daily site EHS checklist; bird activity was controlled by bird netting and Bird Gard	Section Head	Improved Environmental Management Practices
Additional improvements	Improve maintenance of waste processing plant	75	Plant maintenance implemented: key processing equipment and gangways were cleared by trained staff where necessary	Section Head	Increased compliance with licence conditions
Additional improvements	Improve facility infrastructure integrity & drainage maintenance	75	Netwatch CCTV system was well maintained by the provider; cameras were cleaned on a regular basis; drainage repair work was completed by Thorntons; site concrete surface was checked weekly as part of site EHS inspection and repaired if damaged; SW and FW gullies and manholes were painted regularly; rooves of waste buidings were checked and repaired if damaged; external walls and perimeter walls were checked and repaired if damaged	Section Head	Increased compliance with licence conditions
Additional improvements	Provide financial provision for CRAMP and ELRA for the facility	100	Financial provision for CRAMP and ELRA for the facility were reviewed and approved by EPA	Section Head	Increased compliance with licence conditions
SELECT		SELECT		SELECT	SELECT



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### 3.8. Noise

#### Noise monitoring summary report

Lic No:

W0227-01

Year

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1 Was noise monitoring a licence requirement for the AER period?

Yes

If yes please fill in table N1 noise summary below

2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?

[Noise Guidance note NG4](#)

Yes

3 Does your site have a noise reduction plan

No

4 When was the noise reduction plan last updated?

N/A

5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

No

**Table N1: Noise monitoring summary**

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA <sub>eq</sub>	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
19/11/2018	14:05 to 14:35	N/A	NSL1: outside cottage, 5m off killeen and approx. 150m north of AWR facility	68.9	58.0	72.4	89.4	No	No	No tonal or impulsive noise from site activities was recorded during either day or night time monitoring. Noise levels at NSL1 are prone to interference from busy road traffic on Killeen road and difference in Laeq between day and night measurements clearly shows the same.	Yes
19/11/2018	14:36 to 15:06	N/A	NSL1 as above	70.5	59.8	71.7	101.0	No	No	as above	Yes
19/11/2018	15:40 to 16:10	N/A	NSL1 as above	69.9	56.6	98.4	98.4	No	No	as above	Yes
19/11/2018	23:00 to 23:30	N/A	NSL1 as above	60.1	47.8	63.6	77.8	No	No	as above	Yes
19/11/2018	23:36 to 00:06	N/A	NSL1 as above	60.7	47.7	64.2	77.9	No	No	as above	Yes

\*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

SELECT

** please explain the reason for not taking action/resolution of noise issues?
Any additional comments? (less than 200 words)

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### 3.9. Resource-Energy

#### Resource Usage/Energy efficiency summary

Lic No:

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Year

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#### Additional information

1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below

[SEAI - Large](#)

2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information

[Industry Energy Network \(LIEN\)](#)

3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

2011	
No	
SELECT	

Table R1 Energy usage on site				
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	148.508	138.47		
Total Energy Generated (MWHrs)	0	0		
Total Renewable Energy Generated (MWHrs)	0	0		
Electricity Consumption (MWHrs)	148.508	138.47		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	0	0		
Light Fuel Oil (m3)	3	4.097		
Natural gas (m3)	0	0		
Coal/Solid fuel (metric tonnes)	0	0		
Peat (metric tonnes)	0	0		
Renewable Biomass	0	0		
Renewable energy generated on site	0	0		

\* where consumption of energy can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

\*\* where site production information is available please enter percentage increase or decrease compared to previous year

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Table R2 Water usage on site					Water Emissions	Water Consumption	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m <sup>3</sup> yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	400	390					
Recycled water							
Total	400	390					

\* where consumption of water can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

\*\* where site production information is available please enter percentage increase or decrease compared to previous year

Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

Table R4: Energy Audit finding recommendations								
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry) please complete the following information

	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology					
Primary Fuel					
Thermal Efficiency					
Unit Date of Commission					
Total Starts for year					
Total Running Time					
Total Electricity Generated (GWH)					
House Load (GWH)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					

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3.10. Complaints-incidents

Complaints and Incidents summary template		Lic No:	W0227-01	Year	2018
Complaints		Additional information			
Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below		No			

Table 1 Complaints summary							
Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year		0					
Total new complaints received during reporting year		0					
Total complaints closed during reporting year		0					
Balance of complaints end of reporting year		0					

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Incidents		Additional information
Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2		<input type="text" value="Yes"/>

*For information on how to report and what constitutes an incident	<a href="#">What is an incident</a>
--	-------------------------------------

Table 2 Incidents summary

Date of occurrence	Incident nature	Location of occurrence	Incident category* please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of reoccurrence
14-Mar-18	Trigger level reached	Onsite at AWR facility	1. Minor	Water	Other (add details)	Sand containing salt used to melt snow onsite, caused COD and Ammonia high in stormwater	Normal activities	EPA	Recurring	Stormwater gullies cleaned	Stormwater gullies are checked on a daily basis and are cleaned regularly	Complete	16/05/2018	Low
14-Mar-18	Trigger level reached	Onsite at AWR facility	1. Minor	Water	Other (add details)	Sand containing salt used to melt snow onsite, caused Suspended Solids high in stormwater	Normal activities	EPA	Recurring	Stormwater gullies cleaned	Stormwater gullies are checked on a daily basis and are cleaned regularly	Complete	12/04/2018	Low
05-Apr-18	Trigger level reached	Onsite at AWR facility	1. Minor	Water	Other (add details)	Accidental spillage of C&D fines while transporting from one waste building to another	Normal activities	EPA	Recurring	Stormwater gullies cleaned	Memos sent to yard staff and machine man regarding the same	Complete	10/05/2018	Low
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of incidents current year	3													
Total number of incidents previous year	5													
% reduction/increase	40% reduction													

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### 3.11. Waste

WASTE SUMMARY	Lic No:	W0227-01	Year	2018
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES			PRTR facility login	
			dropdown list click to see options	

#### SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility?; (waste generated within your boundaries is to be captured through PRTR reporting)

If yes please enter details in table 1 below

Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information

Additional Information

Yes	
-----	--

No	
No	

Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

**Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR)**

Licensed annual tonnage limit for your site (total tonnes/annum)	EWC code	Source of waste accepted	Description of waste accepted <b>Please enter an accurate and detailed description - which applies to relevant EWC code</b>	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction Increase over previous year +/- %	Reason for reduction/ increase from previous reporting year	Packaging Content (%) - only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
95,000	European Waste Catalogue 15 01 01	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Paper & Cardboard Packaging	1.68	0.88	91%		90%	R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, separating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	0	

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95,000	15 01 03	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Wooden Packaging	58.40	47.85	22%	95%	R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	0
95,000	15 01 06	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Mixed Packaging	358.90	346.34	4%	90%	R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	0
95,000	17 01 07	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Mixture of Concrete, Bricks, Tiles and Ceramics other than those mentioned in 17 01 06	698.57	581.88	20%		R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	15
95,000	17 02 01	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Wood	168.92	301.72	-44%		R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	0
95,000	17 04 05	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Iron and Steel	21.52	36.04	-40%		R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	0



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95,000	17 05 04	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Soil and Stones other than those mentioned in 17 05 03	2,183.94	3,471.18	-37%	Overall, waste accepted onsite in 2018 reduced by 24.07% (9,818.34 tonnes) compared with waste accepted in 2017	R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	47
95,000	17 08 02	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Gypsum-based Construction Materials other than those mentioned in 17 08 01	34.36	19.96	72%		R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	0
95,000	17 09 04	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Mixed Construction and Demolition Wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	24,779.29	33,656.80	-26%	Overall, waste accepted onsite in 2018 reduced by 24.07% (9,818.34 tonnes) compared with waste accepted in 2017	R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	540
95,000	18 01 04	18- WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)	Wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)	154.92	167.26	-7%		D13- Blending or mixing prior to submission to any of the operations numbered D1 to D12	0
95,000	20 02 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Biodegradable Garden and Park Wastes	188.19	154.21	22%		R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	0

# Access Waste Recycling

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95,000	20 03 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Mixed Municipal Waste	13.55	24.82	-45%			D13- Blending or mixing prior to submission to any of the operations numbered D1 to D12	0	
95,000	20 03 03	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Street-cleaning residues	102.86	120.22	-14%			R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	0	
95,000	20 03 07	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Bulky Waste	2,207.06	1,861.34	19%			R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	48	

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SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc)

Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list  
4 waste processing infrastructure required onsite

Yes	

Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste  
5 storage infrastructure required on site

Yes	

6 Does your facility have relevant nuisance controls in place?

Yes	
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7 Do you have an odour management system in place for your facility? If no why?

Yes	
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8 Do you maintain a sludge register on site?

N/A	
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SECTION D-TO BE COMPLETED BY LANDFILL

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cell 8													

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**Table 4 Environmental** [Landfill Manual-Monitoring Standards](#)

meterological monitoring in compliance with Landfill Directive (LD) standard in	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments

.+ please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards

**Table 5 Capping-Landfill only**

Area uncapped*	Area with temporary cap			waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT	Area with final cap to LD Standard m2 ha, a	Area capped other			

\*please note this includes daily cover area

**Table 6 Leachate-Landfill only**

9 Is leachate from your site treated in a Waste Water Treatment Plant?

SELECT

10 Is leachate released to surface water? If yes please complete leachate mass load information below

SELECT

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments

nsure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTF

**Table 7 Landfill Gas-Landfill only**

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
			SELECT	

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**3.12. Waste Transfer 2018 Data**

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: Name and Licence/Permit No of Recover/Disposer	Non Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	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)
						M/C/E	Method Used					
Within the Country	13 05 03	Yes	5.0	interceptor sludges	D9	M	Weighed	Offsite in Ireland	Rilta Environmental Ltd,W0192-03	Block 402 Grants Drive ,Greenogue Business Park ,Rathcoole,Co. Dublin,Ireland	Rital Environmental Limited,W0192-03,Block 402 Grants Drive ,Greenogue Business Park,Rathcoole,Co. Dublin,Ireland	Block 402 Grants Drive ,Greenogue Business Park,Rathcoole,Co. Dublin,Ireland
Within the Country	15 01 03	No	27.8	wooden packaging	R12	M	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd,W0053-03	Depot,Fassaroe,Bray,Co. Wicklow,Ireland		
Within the Country	16 05 05	No	0.54	gases in pressure containers other than those mentioned in 16 05 04	R12	M	Weighed	Offsite in Ireland	Calor Teoranta,.	Calor Gas Long Mile Road,,Dublin 12,Ireland		
Within the Country	17 01 07	No	88.5	01 06 mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17	R5	M	Weighed	Offsite in Ireland	C&D Recycling Kavanagh Ltd,WFP-WX-16-0099-01	Newtown ,Coolgreany,Gorey,Co. Wexford,Ireland		
Within the Country	17 01 07	No	2191.48	01 06 mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17	R5	M	Weighed	Offsite in Ireland	Behans Land Restoration,W0247-01	Blackhall,Punchestown,Naas ,Co Kildare,Ireland		
Within the Country	17 01 07	No	373.42	01 06 mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17	R5	M	Weighed	Offsite in Ireland	Cullen Excavations Ltd,WFP-WW-17-0003-04	Ballygarret Kilcoole,,Co. Wicklow,Ireland		
Within the Country	17 01 07	No	3484.82	01 06 mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17	R5	M	Weighed	Offsite in Ireland	Waleshtown Restoration Limited,W0254-01	Blackhall TipperKevin & Bawnoge,Naas,Naas,County Kildare,Ireland		
Within the Country	17 02 01	No	712.26	wood	R12	M	Weighed	Offsite in Ireland	OCR Waste Management Ltd,WFP-RN-18-0001-01	Office 2 Roxborough,,Co. Roscommon,Ireland		
Within the Country	17 02 01	No	1940.56	wood	R12	M	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd,W0053-03	Bray Depot,Fassaroe,Bray,Co. Wicklow,Ireland		
Within the Country	17 06 05	Yes	0.04	construction materials containing asbestos (18)	D13	M	Weighed	Offsite in Ireland	Rilta Environmental Ltd,W0192-03	Block 402 Grants Drive ,Greenogue Business Park ,Rathcoole,Co. Dublin,Ireland	Rital Environmental Limited,W0192-03,Block 402 Grants Drive ,Greenogue Business Park,Rathcoole,Co. Dublin,Ireland	Block 402 Grants Drive ,Greenogue Business Park,Rathcoole,Co. Dublin,Ireland
Within the Country	17 08 02	No	6.14	gypsum-based construction materials other than those mentioned in 17 08 01	R12	M	Weighed	Offsite in Ireland	G&J O'Neill Enterprises Ltd,WFP-KE-15-0080-01	Unit 74A,Naas Industrial Estate,Naas,Co. Kildare,Ireland		
Within the Country	19 12 02	No	795.96	ferrous metal	R12	M	Weighed	Offsite in Ireland	Mark O'Reilly Recycling Colfix (Dublin) Ltd,WFP-DS-10-0002-04	Bluebell Industrial Estate,,Dublin 12,Ireland		
Within the Country	19 12 03	No	14.96	aluminium	R12	M	Weighed	Offsite in Ireland	Mark O'Reilly Recycling Colfix (Dublin) Ltd,WFP-DS-10-0002-04	Bluebell Industrial Estate,,Dublin 12,Ireland		
Within the Country	19 12 03	No	4.2	mixed cable	R12	M	Weighed	Offsite in Ireland	Mark O'Reilly Recycling Colfix (Dublin) Ltd,WFP-DS-10-0002-04	Bluebell Industrial Estate,,Dublin 12,Ireland		
Within the Country	19 12 07	No	492.64	wood other than that mentioned in 19 12 06	R10	M	Weighed	Offsite in Ireland	Waddock Composting Facility,WFP-CW-13-001-01	Killamaster,,Co. Carlow,Ireland		

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Within the Country	19 12 12	No	1843.86 dry mixed residual waste	R12	M	Weighed	Offsite in Ireland	Thorntons Recycling Centre,W0044-02	Killeen Road,Ballyfermot,,Dublin 10,Ireland		
Within the Country	19 12 12	No	3351.72 C&D fines	R10	M	Weighed	Offsite in Ireland	Ballynagran Landfill Ltd,W0165-02	Ballynagran Coolbeg and Kilcandra,,Co. Wicklow,,Ireland		
Within the Country	19 12 12	No	4387.62 C&D fines	R10	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility Bord na Mona Plc,W0201-03	Timahoe West Coolcarrigan Carbury ,,,Co. Kildare,Ireland		
Within the Country	19 12 12	No	737.32 C&D fines	R10	M	Weighed	Offsite in Ireland	Knockharley Landfill Ltd,W0146-02	Knockharley Navan,,,,Co. Meath,Ireland		
Within the Country	19 12 12	No	2416.26 clean construction rubble	R10	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility Bord na Mona Plc,W0201-03	Timahoe West Coolcarrigan Carbury ,,,Co. Kildare,Ireland		
Within the Country	19 12 12	No	292.18 clean construction rubble	R10	M	Weighed	Offsite in Ireland	Ballynagran Landfill Ltd,W0165-02	Ballynagran Coolbeg and Kilcandra,,Co. Wicklow,,Ireland		
Within the Country	19 12 12	No	757.58 dry mixed general waste for landfill	D5	M	Weighed	Offsite in Ireland	Drehid Waste Management Facility Bord na Mona Plc,W0201-03	Timahoe West Coolcarrigan Carbury ,,,Co. Kildare,Ireland		
Within the Country	19 12 12	No	1782.52 dry mixed general waste for landfill	D5	M	Weighed	Offsite in Ireland	Ballynagran Landfill Ltd,W0165-02	Ballynagran Coolbeg and Kilcandra,,Co. Wicklow,,Ireland		
Within the Country	19 12 12	No	434.1 dry mixed general waste for landfill	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill Ltd,W0146-02	Knockharley Navan,,,,Co. Meath,Ireland		
Within the Country	20 01 35	Yes	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing 3.0 hazardous components	R12	M	Weighed	Offsite in Ireland	Rehab Enterprises Ltd,WFP-DS-10-0008-05	Unit 77 Broomhill Road,,Tallaght,Dublin 24,Ireland	Rehab Enterprise Ltd,WFP-DS-10-0008-05,Unit 77 Broomhill Road,,Tallaght,Dublin 24,Ireland	Unit 77 Broomhill Road,,Tallaght,Dublin 24,Ireland
Within the Country	17 05 04	No	soil and stones other than those mentioned 93.94 in 17 05 03	R5	M	Weighed	Offsite in Ireland	Waleshtown Restoration Limited,W0254-01	Blackhall TipperKevin & Bawnoge,Naas,Naas,County Kildare,Ireland		
Within the Country	17 05 04	No	soil and stones other than those mentioned 2660.3 in 17 05 03	R5	M	Weighed	Offsite in Ireland	Hudson Concrete Limited,WFP-WX-16-0116-01	Hudson Concrete Limited,New Town Upper Coolgreany,Gorey,County Wexford,Ireland		
Within the Country	20 03 07	No	11.3 bulky waste (mattresses)	R12	M	Weighed	Offsite in Ireland	Eco Mattress Recycling Ltd,WFP-DC-12-0032-02	Unit 133A Dublin Industrial Estate,Slaney Road,Glasnevin,Dublin 11,Ireland		