

Annual Environmental Report

2018



License No.

W0227-01

Reporting Period:

1st January to 31st December 2018

Submission Deadline:

31st 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

Table of Contents

| | |
|---------------------------------------------------------|----|
| 1. Introduction | 4 |
| 2. Environmental Management - Organisational Chart..... | 5 |
| 3. Summary Information..... | 6 |
| 3.1. Facility Summary Information..... | 7 |
| 3.2. Air | 8 |
| 3.3. Water & Wastewater | 12 |
| 3.4. Bund testing | 18 |
| 3.5. GW-Soil..... | 20 |
| 3.6. ELRA..... | 22 |
| 3.7. EMP | 23 |
| 3.8. Noise..... | 25 |
| 3.9. Resource-Energy..... | 27 |
| 3.10. Complaints-incidents..... | 29 |
| 3.11. Waste | 31 |
| 3.12. Waste Transfer 2018 Data..... | 37 |

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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 1st of January 2018 to 31st 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,



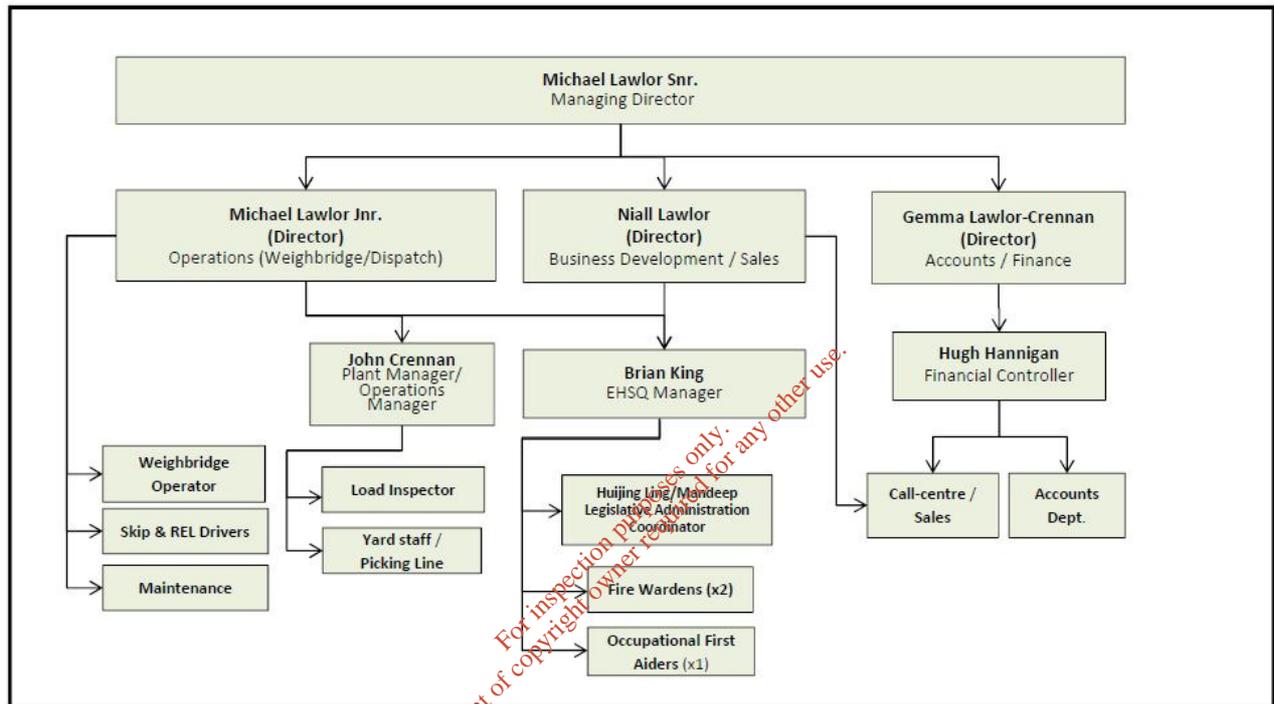
Niall Lawlor

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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AER 2018

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" |
| 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 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. | <p>Acceptance and pre-sorting of non-hazardous household, commercial, industrial and C&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 & stones and concrete & 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 |

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AER 2018

3.2. Air

| | | |
|-----------------------------|------------------|------------|
| AIR-summary template | Lic No: W0227-01 | Year: 2018 |
|-----------------------------|------------------|------------|

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

| | |
|----|------------------------|
| No | Additional information |
|----|------------------------|

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

| | |
|----|--|
| No | |
|----|--|

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](#)

| | |
|-----|--|
| 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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AER 2018

| | | | | | | | | | | |
|-----|------|------------------------|-----|-----------------------|--------|-----------|-----|------------------|--|--|
| 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? | No | |
| | 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) | | |
| 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

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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 | | | Solvent regulations Please refer to linked solvent regulations to complete table 5 and 6 | | |
|--------------------------------------------------|----------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------|
| Total VOC Emission limit value | | | | | |
| 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 | |

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3.3. Water & Wastewater

| | | |
|------------------------------------------------------------------------|------------------|------------|
| AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) | Lic No: W0227-01 | Year: 2018 |
|------------------------------------------------------------------------|------------------|------------|

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <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 you do not have licenced emissions you <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections</p> | Additional information |
| 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 any evidence of contamination noted during visual inspections</u></p> | |
| Yes | |

Table W1 Storm water monitoring

| Location reference | Location relative to site activities | PRTR Parameter | Licensed 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> | Additional information |
| No | |
| <p>4 Was all monitoring carried out in accordance with EPA External 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 /Internal Lab Quality checklist Assessment of results checklist</p> | |
| Yes | |

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AER 2018

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

| Emission reference no: | Emission released to | Parameter/ Substance ^{Note 1} | Type of sample | Frequency of monitoring | Averaging period | ELV or trigger values in licence or any revision thereof ^{Note 2} | 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

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Continuous monitoring

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

| | |
|----|------------------------|
| No | Additional Information |
|----|------------------------|

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 | |
|--------|--|

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

| | |
|--------|--|
| SELECT | |
|--------|--|

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

| | |
|--------|--|
| SELECT | |
|--------|--|

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

| | | |
|---------------------------------------|------------------|------------|
| Bund/Pipeline testing template | Lic No: W0227-01 | Year: 2018 |
|---------------------------------------|------------------|------------|

Bund testing dropdown menu click to see option

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 **1 be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds)

2 Please provide integrity testing frequency period

Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, 3 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 te

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

Additional information

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

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

15

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

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

Commentary

| | |
|-----|--|
| Yes | |
| Yes | |
| Yes | |

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AER 2018

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**

| | |
|---------|--|
| Yes | |
| 3 years | |

1 **failed the integrity test and all which have not been tested within 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)

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

| | | | | |
|---------------------------------------------|---------|----------|------|------|
| Groundwater/Soil monitoring template | Lic No: | W0227-01 | Year | 2018 |
|---------------------------------------------|---------|----------|------|------|

| | | 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 Groundwater monitoring template 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

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AER 2018

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)

[Surface water EQS](#)
 [Groundwater regulations](#)
 [Drinking water \(private supply\) standards](#)
 [Drinking water \(public supply\) standards](#)
 [Interim Guideline Values \(IGV\)](#)

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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AER 2018

3.6. ELRA

| | | | |
|-------------------------------------------|---------|----------|-----------|
| Environmental Liabilities template | Lic No: | W0227-01 | Year 2018 |
|-------------------------------------------|---------|----------|-----------|

[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

| | | 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 | Certified to ISO 14001 |
| 2 | Does the EMS reference the most significant environmental aspects and associated impacts on-site | |
| 3 | Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements | |
| 4 | Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence | |

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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AER 2018

| | | | | | |
|-------------------------|------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------|
| 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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AER 2018

3.8. Noise

| | | | |
|----------------------------------------|------------------|------|------|
| Noise monitoring summary report | Lic No: W0227-01 | Year | 2018 |
|----------------------------------------|------------------|------|------|

- 1 Was noise monitoring a licence requirement for the AER period?
If yes please fill in table N1 noise summary below Yes

- 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? 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

[Noise Guidance note NG4](#)

Table N1: Noise monitoring summary

| Date of monitoring | Time period | Noise location (on site) | Noise sensitive location -NSL (if applicable) | LA _{eq} | LA ₉₀ | LA ₁₀ | LA _{max} | 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: | W0227-01 | Year | 2018 |
|-------------------------------------------------|---------|----------|------|------|

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

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

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

Additional information

| | |
|--------|------|
| | 2011 |
| No | |
| SELECT | |

[SEAI - Large Industry Energy Network \(LIEN\)](#)

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| 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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AER 2018

| 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 ³ 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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AER 2018

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

| | |
|-----|--|
| Yes | |
|-----|--|

*For information on how to report and what constitutes an incident [What is an incident](#)

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 |

Access Waste Recycling

AER 2018

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 logon | 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)

| | |
|-----|------------------------|
| Yes | Additional Information |
|-----|------------------------|

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

| | |
|----|------------------------|
| No | Additional Information |
|----|------------------------|

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

| | |
|----|------------------------|
| No | 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 Please enter an accurate and detailed description which applies to relevant EWC code European Waste Catalogue EWC codes | 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 | 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, seperating, 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 |

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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 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 storage infrastructure required on site

| | |
|-----|--|
| Yes | |
|-----|--|

6 Does your facility have relevant nuisance controls in place?

| | |
|-----|--|
| Yes | |
|-----|--|

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

| | |
|-----|--|
| Yes | |
|-----|--|

8 Do you maintain a sludge register on site?

| | |
|-----|--|
| N/A | |
|-----|--|

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

*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 |
| SELECT |

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

| 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 |
|------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|----------------------------|------------------------------------|----------|
| | | | | | | | |

Ensure 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 | 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 | | Haz Waste: Name and Licence/Permit No of Recover/Disposer | Non Haz Waste: Address of Recover/Disposer | | | | |
| Within the Country | 13 05 03 | Yes | 5.0 | interceptor sludges | D9 | M | Weighed | Offsite in Ireland | Rital 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 Newtown | | | |
| Within the Country | 17 01 07 | No | 88.5 | mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 | R5 | M | Weighed | Offsite in Ireland | C&D Recycling Kavanagh Ltd,WFP-WX-16-0099-01 | | ,Coolgreany,Gorey,Co. Wexford,Ireland | | | |
| Within the Country | 17 01 07 | No | 2191.48 | mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 | 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 | mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 | 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 | mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 | R5 | M | Weighed | Offsite in Ireland | Waleshtown Restoration Limited,W0254-01 | | 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 | | 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 | Rital 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 |
| 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 | |

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