


| Facility Information Summary   |   |
|--|---|
| AER Reporting Year   | 2016  |
| Licence Register Number  | W0222-01  |
| Name of site   | AES Lusk  |
| Site Location  | Coldwinters, Blakescross, Lusk Co. Dublin   |
| NACE Code  | 3832  |
| Class/Classes of Activity  | Classes 11, 12 & 13 of the Third schedule of the WMA 1996-2011;<br>Classes 2, 3, 4, and 13, of the forth Schedule of the WMA act  |
| National Grid Reference (6E, 6 N)  |   |
| A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year <b>and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.</b> | <p>AES Lusk opened in July 2014 when the Waste Licence (W0222-01) was transferred to Advanced Environmental Solutions (Ireland) Ltd. The facility is primarily a waste processing facility for Commercial and Industrial and Construction and Demolition Wastes. In addition mixed municipal wastes (inc recyclables) from households, municipal sources and retail and industrial sources is accepted. This material is unloaded, and stored pending bulk transfer to onward waste processing destinations with Ireland. C&amp;D and C&amp;I wastes are unloaded and any items that unacceptable wastes and are unsuitable for processing are removed. Wastes are then loaded into a hopper and passed via conveyor over a magnet prior to being passed through a trommel (50mm screen). small materials are passed over a star screen where fine particulate granular material is separated from larger light material (Paper, plastic, tiles, ceramics, stones, etc). further mechanical separation separates small clean construction rubble from light paper and plastics suitable for SRF production. The oversize material from the trommelling process is passed through a manual sorting room where concrete, wood, plastic, and metals are sorted. After passing over another overband magnet the remaining residual wastes are bulked for transfer to landfill or sent for energy recovery as low grade RDF. There were no reportable complaints or incidents to the Agency in 2016. The Agency carried out a site visit in November 2016. Two non-compliances were recorded during this site inspection relating to the facility yard hardstanding and the inappropriate storage of wastes.</p> <p>There were a number of observations recorded during the site inspection relating to haulager WCPs, Spill Clean up procedures, Annual review of CRAMP. A Compliance investigation was opened due to the lack of progression of the site Remedial works. In response the remedial works commenced in November 2016, the Stormwater line was completely removed and replaced, the area to the rear of the premeised was remediated, the firewater retention wall was constructed, a second interceptor was installed and finally the entire yard was resurfaced with impermeable concrete and tarmacadam where appropriate.</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.

|   |               |
|---|---------------|
|  | 30th May 2017 |
| CHARLOTTE GREENE<br>Environmental Officer   | Date          |
| (or nominated, suitably qualified and experienced deputy)                           |               |

**AIR-summary template** Lic No: W0222-01 Year 2016

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

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

3 Was all monitoring carried out in accordance with EPA guidance [Basic air monitoring checklist](#) note AG2 and using the basic air monitoring checklist? [AGN2](#)

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

**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 |
|------------------------|----------------------|-------------------------|--|-----------------------------|----------------|---------------------|------------------------------|--------------------|-----------------------|--|
|                        | SELECT               |                         |  | SELECT                      |                | SELECT              | SELECT                       | SELECT             |                       |  |
|                        | SELECT               |                         |  | SELECT                      |                | SELECT              | SELECT                       | SELECT             |                       |  |
|                        | SELECT               |                         |  | SELECT                      |                | SELECT              | SELECT                       | SELECT             |                       |  |
|                        | SELECT               |                         |  | SELECT                      |                | SELECT              | SELECT                       | SELECT             |                       |  |

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

|                              |  |         |          |      |      |
|------------------------------|--|---------|----------|------|------|
| <b>AIR-summary template</b>  |  | Lic No: | W0222-01 | Year | 2016 |
| <b>Continuous Monitoring</b> |  |         |          |      |      |

4 Does your site carry out continuous air emissions monitoring?

If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)

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

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

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

**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 |
|------------------------|-------------------------------------|--|------------------|-------------------------------------|-------------------------------------|-----------------|----------------|---------------------------------------|---|----------|
|                        | <input type="text" value="SELECT"/> |  |                  | <input type="text" value="SELECT"/> | <input type="text" value="SELECT"/> |                 |                |                                       |   |          |
|                        | <input type="text" value="SELECT"/> |  |                  |                                     | <input type="text" value="SELECT"/> |                 |                |                                       |   |          |
|                        | <input type="text" value="SELECT"/> |  |                  |                                     | <input type="text" value="SELECT"/> |                 |                |                                       |   |          |
|                        | <input type="text" value="SELECT"/> |  |                  |                                     | <input type="text" value="SELECT"/> |                 |                |                                       |   |          |
|                        | <input type="text" value="SELECT"/> |  |                  |                                     | <input type="text" value="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

|  |                                  |  |  |                                       |
|--|----------------------------------|--|--|---------------------------------------|
| <b>AIR-summary template</b>  |                                  | Lic No: W0222-01   | Year: 2016   |                                       |
| <b>Solvent use and management on site</b>  |                                  |  |  |                                       |
| 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 |                                  |  | SELECT   |                                       |
| <b>Table A4: Solvent Management Plan Summary</b>   |                                  | <a href="#">Solvent regulations</a> Please refer to linked solvent regulations to complete table 5 and 6 |  |                                       |
| <b>Total VOC Emission limit value</b>  |                                  |  |  |                                       |
| 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 therof |                                       |
|  |                                  |  | SELECT   |                                       |
|  |                                  |  | SELECT   |                                       |
| <b>Table A5: Solvent Mass Balance summary</b>  |                                  |  |  |                                       |
|  | (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.   |
|  |                                  |  |  | Solvents destroyed onsite             |
|  |                                  |  |  | Total emission of Solvent to air (kg) |
|  |                                  |  |  | Total                                 |

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** licensed emissions you **only** need to complete table W1 and or W2 for storm water analysis and visual inspections

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 **only any evidence of contamination noted during visual inspections**

| Additional information |   |
|------------------------|---|
| No                     | Storm water has been tankered offsite since the site opened in July 2014 due to faults detected in the storm water network. In November 2016 - January 2017, the repairs were carried out to the yard storm water network, remedial works and repairs to the yard surface. storm water discharge from SW3 is expected to be resumed in 2017 |
| Yes                    | No discharge in 2016 so not applicable  |

**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* | License 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)**

Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below

| Additional information |  |
|------------------------|--|
| No                     |  |
| Yes                    | Results below are receiving waters from the Ballough River upstream and downstream of the facility |

Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box

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

**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** | License 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                      |
|------------------------|----------------------|-----------------------------|----------------|-------------------------|------------------|--|-----------------------------|----------------|---------------------|------------------------|-------------------------------|--------------------------------|--------------------------------------|-----------------------|-------------------------------|
| SW1                    | Water                | BOD                         | discrete       | Annual                  | Annual           | High Status 2.2 Good Status 2.6                            |                             | 2              | mg/l                | Yes                    | pH Meter (Electrode)          | APHA / AWWA "Standard Methods" | 4500 H+8                             |                       |                               |
| SW-1                   | Water                | COD                         | discrete       | Annual                  | Annual           | -  |                             | 13             | mg/l                | Yes                    | rophotometry (Colorimetry)    | APHA / AWWA "Standard Methods" | 5220D,                               |                       |                               |
| SW1                    | Water                | Ammonia as N                | discrete       | Annual                  | Annual           | High Status: 50.04 Good Status: 50.065                     |                             | <0.02          | mg/l                | yes                    | rophotometry (Colorimetry)    | APHA / AWWA "Standard Methods" | 4500-NH3                             |                       |                               |
| SW1                    | Water                | Chloride                    | discrete       | Annual                  | Annual           | -  |                             | 38             | mg/l                | yes                    | rophotometry (Colorimetry)    | APHA / AWWA "Standard Methods" | Method 4500-CL-E                     |                       |                               |
| SW1                    | Water                | Suspended Solids            | discrete       | Annual                  | Annual           | -  |                             | 7              | mg/l                | yes                    | Gravimetric analysis          | APHA / AWWA "Standard Methods" | 2540D                                |                       |                               |
| SW1                    | Water                | Boron                       | discrete       | Annual                  | Annual           | -  |                             | 0.009          | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Beryllium                   | discrete       | Annual                  | Annual           | -  |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Aluminum                    | discrete       | Annual                  | Annual           | -  |                             | 0.003          | µg/l                | No                     | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       | Exceeded EGS Limit of 200µg/l |
| SW1                    | Water                | Chromium                    | discrete       | Annual                  | Annual           | -  |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Manganese                   | discrete       | Annual                  | Annual           | -  |                             | 0.008          | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Cobalt                      | discrete       | Annual                  | Annual           | -  |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Nickel                      | discrete       | Annual                  | Annual           | -  |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Copper                      | discrete       | Annual                  | Annual           | 5 or 30***   |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Zinc                        | discrete       | Annual                  | Annual           | 8 or 50 or 100****   |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Arsenic                     | discrete       | Annual                  | Annual           | 25   |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Selenium                    | discrete       | Annual                  | Annual           | -  |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Silver                      | discrete       | Annual                  | Annual           | -  |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Cadmium                     | discrete       | Annual                  | Annual           | -  |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Tin                         | discrete       | Annual                  | Annual           | -  |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Antimony                    | discrete       | Annual                  | Annual           | -  |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Barium                      | discrete       | Annual                  | Annual           | -  |                             | 0.027          | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Lead                        | discrete       | Annual                  | Annual           | -  |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Mercury                     | discrete       | Annual                  | Annual           | -  |                             | <0.001         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Sodium                      | discrete       | Annual                  | Annual           | -  |                             | 11             | mg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Magnesium                   | discrete       | Annual                  | Annual           | -  |                             | 4.7            | mg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Potassium                   | discrete       | Annual                  | Annual           | -  |                             | 1.9            | mg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Calcium                     | discrete       | Annual                  | Annual           | -  |                             | 64             | mg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Iron                        | discrete       | Annual                  | Annual           | -  |                             | <0.1           | mg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW1                    | Water                | Total Coliforms             | discrete       | Annual                  | Annual           | -  |                             | 12             | cfu/100ml           | No                     | sed on IDEXX defined standard | APHA / AWWA "Standard Methods" | D/1201 MPN                           |                       | Exceeded EGS Limit of 0       |
| SW1                    | Water                | E-Coli                      | discrete       | Annual                  | Annual           | -  |                             | 10             | cfu/100ml           | No                     | sed on IDEXX defined standard | APHA / AWWA "Standard Methods" | D/1201 MPN                           |                       | Exceeded EGS Limit of 0       |
| SW-2                   | Water                | BOD                         | discrete       | Annual                  | Annual           | High Status 2.2 Good Status 2.6                            |                             | 8              | mg/l                | no                     | pH Meter (Electrode)          | APHA / AWWA "Standard Methods" | 4500 H+8                             |                       |                               |
| SW-2                   | Water                | COD                         | discrete       | Annual                  | Annual           | -  |                             | 15             | mg/l                | yes                    | rophotometry (Colorimetry)    | APHA / AWWA "Standard Methods" | 5220D,                               |                       |                               |
| SW-2                   | Water                | Ammonia as N                | discrete       | Annual                  | Annual           | High Status: 50.04 Good Status: 50.065                     |                             | <0.02          | mg/l                | yes                    | rophotometry (Colorimetry)    | APHA / AWWA "Standard Methods" | 4500-NH3                             |                       |                               |
| SW-2                   | Water                | Chloride                    | discrete       | Annual                  | Annual           | -  |                             | 38             | mg/l                | yes                    | rophotometry (Colorimetry)    | APHA / AWWA "Standard Methods" | Method 4500-CL-E                     |                       |                               |
| SW-2                   | Water                | Suspended Solids            | discrete       | Annual                  | Annual           | -  |                             | 6              | mg/l                | yes                    | Gravimetric analysis          | APHA / AWWA "Standard Methods" | 2540D                                |                       |                               |
| SW-2                   | Water                | Boron                       | discrete       | Annual                  | Annual           | -  |                             | 0.01           | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW-2                   | Water                | Beryllium                   | discrete       | Annual                  | Annual           | -  |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW-2                   | Water                | Aluminum                    | discrete       | Annual                  | Annual           | -  |                             | <0.002         | µg/l                | Yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW-2                   | Water                | Chromium                    | discrete       | Annual                  | Annual           | -  |                             | <0.002         | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |
| SW-2                   | Water                | Manganese                   | discrete       | Annual                  | Annual           | -  |                             | 0.01           | µg/l                | yes                    | wely Coupled Plasma -         | APHA / AWWA "Standard Methods" | EPA Method 200.10                    |                       |                               |

|      |       |                     |          |           |           |                                |                  |                          |             |     |                            |                        |  |                         |
|------|-------|---------------------|----------|-----------|-----------|--------------------------------|------------------|--------------------------|-------------|-----|----------------------------|------------------------|--|-------------------------|
| SW-2 | Water | Cobalt              | discrete | Annual    | Annual    | -                              |                  | <0.002                   | µg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Nickel              | discrete | Annual    | Annual    | -                              |                  | <0.002                   | µg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Copper              | discrete | Annual    | Annual    | 5 or 30 <sup>mg/L</sup>        |                  | <0.002                   | µg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Zinc                | discrete | Annual    | Annual    | 8 or 50 or 100 <sup>mg/L</sup> |                  | <0.002                   | µg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Arsenic             | discrete | Annual    | Annual    | 25                             |                  | <0.002                   | µg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Selenium            | discrete | Annual    | Annual    | -                              |                  | <0.002                   | µg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Silver              | discrete | Annual    | Annual    | -                              |                  | <0.002                   | µg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Cadmium             | discrete | Annual    | Annual    | -                              |                  | <0.002                   | µg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Tin                 | discrete | Annual    | Annual    | -                              |                  | <0.002                   | µg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Antimony            | discrete | Annual    | Annual    | -                              |                  | <0.002                   | µg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Barium              | discrete | Annual    | Annual    | -                              |                  | 0.029                    | µg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Lead                | discrete | Annual    | Annual    | -                              |                  | <0.002                   | µg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Mercury             | discrete | Annual    | Annual    | -                              |                  | 0.002                    | µg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Sodium              | discrete | Annual    | Annual    | -                              |                  | 13                       | mg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Magnesium           | discrete | Annual    | Annual    | -                              |                  | 5.8                      | mg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Potassium           | discrete | Annual    | Annual    | -                              |                  | 2.4                      | mg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Calcium             | discrete | Annual    | Annual    | -                              |                  | 87                       | mg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Iron                | discrete | Annual    | Annual    | -                              |                  | <0.1                     | mg/l        | yes | wely Coupled Plasma -      | APHA / AWWA "Standard" | EPA Method 200.10                          |                         |
| SW-2 | Water | Total Coliforms     | discrete | Annual    | Annual    | -                              |                  | 23                       | cfu/100ml   | No  | sed on IDXXX defined s     | APHA / AWWA "Standard" | 0/1201 MPN                                 | Exceeded EQS Limit of 0 |
| SW-2 | Water | E-Coli              | discrete | Annual    | Annual    | -                              |                  | 19                       | cfu/100ml   | No  | sed on IDXXX defined s     | APHA / AWWA "Standard" | 0/1201 MPN                                 | Exceeded EQS Limit of 0 |
| SW-3 | Water | ph                  | discrete | Quarterly | weekly    | 6.0 – 9.0                      | All values < ELV | No Discharge during 2016 | pH units    | No  | pH Meter (Electrode)       | APHA / AWWA "Standard" | Method 4500 H+B                            |                         |
| SW-3 | Water | Conductivity        | discrete | Quarterly | weekly    | -                              |                  | No Discharge during 2017 | µS/cm @20°C | No  | uctivity Meter (Electrode) | APHA / AWWA "Standard" | 2510B                                      | Exceeded Once           |
| SW-3 | Water | COD                 | discrete | Quarterly | weekly    | 30                             | All values < ELV | No Discharge during 2018 | mg/L        | No  | ophotometry (Colorimetric) | APHA / AWWA "Standard" | 5220D, Closed Reflux, colourimetric method | 15/9/14 41mg/l          |
| SW-3 | Water | Chloride            | discrete | Quarterly | weekly    | -                              |                  | No Discharge during 2019 | mg/l        | No  | ophotometry (Colorimetric) | APHA / AWWA "Standard" | Method 4500-CL-E                           |                         |
| SW-3 | Water | Suspended Solids    | discrete | Quarterly | Quarterly | 25                             | All values < ELV | No Discharge during 2020 | mg/L        | No  | Gravimetric analysis       | APHA / AWWA "Standard" | 2540D                                      | Exceeded Once           |
| SW-3 | Water | Ammonia as N        | discrete | Quarterly | Quarterly | -                              |                  | No Discharge during 2021 | mg/L        | No  | ophotometry (Colorimetric) | APHA / AWWA "Standard" | 4500-NH3                                   | 21/7/14 0.79mg/l        |
| SW-3 | Water | Total Nitrogen      | discrete | Quarterly | Quarterly | -                              |                  | No Discharge during 2022 | mg/L        | No  | ophotometry (Colorimetric) | APHA / AWWA "Standard" | 4500-NO2B                                  |                         |
| SW-3 | Water | Oils Fats & Greases | discrete | Quarterly | Quarterly | 10                             | All values < ELV | No Discharge during 2023 | mg/L        | No  | Gravimetric analysis       | APHA / AWWA "Standard" | 5520-B                                     |                         |

Note 1: European Communities Environmental Objectives (Surface Waters) Regulations, 2009 (S.I. No. 272 of 2009).  
Note 2: EPA Environmental Quality Standard for Surface Waters  
Note 3: Water Quality Standard = 1988 Statutory Instrument No. 293, European Communities (Quality of Salmonid Waters) Regulations 1988...

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

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

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

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

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

Bund testing

dropdown menu click to see options

Additional information

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

|         |  |
|---------|--|
| Yes     |  |
| 3 years |  |
| Yes     |  |
| 3       |  |
| 3       |  |
| 2       |  |
| 2       |  |
| 0       |  |
| 0       |  |
| No      |  |
| N/A     |  |
| N/A     |  |

- 1
- 2 Please provide integrity testing frequency period
- Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
- 4 How many bunds are on site?
- 5 How many of these bunds have been tested within the required test schedule?
- 6 How many mobile bunds are on site?
- 7 Are the mobile bunds included in the bund test schedule?
- 8 How many of these mobile bunds have been tested within the required test schedule?
- 9 How many sumps on site are included in the integrity test schedule?
- 10 How many of these sumps are integrity tested within the test schedule?  
Please list any sump integrity failures in table B1
- 11 Do all sumps and chambers have high level liquid alarms?
- 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
- 13 Is the Fire Water Retention Pond included in your integrity test programme?

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) |
|-------------------------------|---------------|------------------------|---------------------------|-----------------|--------------------|------------------------|-----------------|------------|---------------------------------------|-----------------|--|-------------------------|---------------------------|---|
| Bund 1 Steel Oil Bund         | other (Steel) | Steel Bunded Container | Oil and Waste garage oils | 1,152 L         | 1,100 L            | Hydraulic test         |                 | 06/03/2017 | Yes                                   | Pass            |  | 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 Guidance?

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

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

[bunding and storage guidelines](#)

| Commentary |  |
|------------|--|
| SELECT     |  |
| SELECT     |  |
| SELECT     |  |

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 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)

|         |  |
|---------|--|
| Yes     |  |
| 3 years | Storm water network was removed and replace in Autumn 2016, additional interceptor was added to the system. The entire system was pressure tested on CQA and found to be fully compliant. Records maintained on site |
|         | Completed January 2017   |

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) |
|----------------------|-------------|---------------------------|---|-------------------------------|------------------------|---------------------------------------|-----------------|--|-------------------------|---------------------------|---|
| Storm water Pipeline | Storm       | pvc                       | No  |                               | Hydraulic              | Yes                                   | Pass            |  |                         |                           | SELECT  |
|                      |             |                           |   |                               |                        |                                       |                 |  |                         |                           |   |
|                      |             |                           |   |                               |                        |                                       |                 |  |                         |                           |   |
|                      |             |                           |   |                               |                        |                                       |                 |  |                         |                           |   |

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

|   |                  |           |
|---|------------------|-----------|
| <b>Groundwater/Soil monitoring template</b> | Lic No: W0222-01 | Year 2016 |
|---|------------------|-----------|

|    |  | Comments |
|----|--|----------|
| 1  | Are you required to carry out groundwater monitoring as part of your licence requirements?   | Yes      |
| 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 Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. | No       |
| 5  | Is the contamination related to operations at the facility (either current and/or historic)  | Yes      |
| 6  | Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site   | Yes      |
| 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?  | Yes      |
| 9  | Has any type of risk assesment been carried out for the site?  | Yes      |
| 10 | Has a Conceptual Site Model been developed for the site?   | Yes      |
| 11 | Have potential receptors been identified on and off site?  | Yes      |
| 12 | Is there evidence that contamination is migrating offsite?   | 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 interpretation as an additional section in this AER

Remediation works commenced in November 2016 and the completed site handover file was submitted to the Agency in 2017. Details on the site remediation are retained on file on site

**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 |
|------------------|---------------------------|----------------------|---|----------------------|-------------------------|------------------------|----------|-------------|----------|--|
| 18/04/2016       | GW-1                      | pH                   | APHA 2012 4500 H&B                                      | Annual               | 7.6                     | 7.6                    | pH units | 6.5-9.5     | 6.5-9.5  | data not available   |
| 18/04/2016       | GW-1                      | Conductivity @ 25°C  | APHA 2012 2510B   | Annual               | 681                     | 681                    | µS/cm    | 800-1875    | 1,000    | data not available   |
| 18/04/2016       | GW-1                      | COD                  | APHA,2012 5220D   | Annual               | 10                      | 10                     | mg/l     | -           | -        | data not available   |
| 18/04/2016       | GW-1                      | Ammonia NH3-N        | NH3 and   | Annual               | <0.02                   | <0.02                  | mg/l     | -           | -        | data not available   |
| 18/04/2016       | GW-1                      | Ammonium as NH4      | APHA 2012 4500- NH3 and bluebook Ammonia in waters 1981 | Annual               | <0.03                   | <0.03                  | mg/l     | 0.065-0.175 | 0.15     | data not available   |
| 18/04/2016       | GW-1                      | Nitrate              | APHA 2012 4500- NO <sub>2</sub> B. Colorimetric Method  | Annual               | 3.5                     | 3.5                    | mg/l     | 37.5        | 25       | data not available   |
| 18/04/2016       | GW-1                      | Total Nitrogen       | APHA 2012 4500- NO <sub>2</sub> B. Colorimetric Method  | Annual               | 3.4                     | 3.4                    | mg/l     | -           | -        | data not available   |
| 18/04/2016       | GW-1                      | Chloride             | APHA 2012 4500- CL-E                                    | Annual               | 30                      | 30                     | mg/l     | 187.5       | 30       | data not available   |
| 18/04/2016       | GW-1                      | Boron (dissolved)    | ICP-MS  | Annual               | 18                      | 18                     | µg/l     | 750         | 1000     | data not available   |
| 18/04/2016       | GW-1                      | Beryllium (diss)     | ICP-MS  | Annual               | <2                      | <2                     | µg/l     | -           | -        | data not available   |



| Groundwater/Soil monitoring template |      |                  | Lic No:        | W0222-01 | Year | 2016 |           |       |     |                    |
|--------------------------------------|------|------------------|----------------|----------|------|------|-----------|-------|-----|--------------------|
| 18/04/2016                           | GW-1 | Aluminium (diss) | ICP-MS         | Annual   | <2   | <2   | µg/l      | 150   | 200 | data not available |
| 18/04/2016                           | GW-1 | Chromium (diss)  | ICP-MS         | Annual   | <2   | <2   | µg/l      | 37.5  | 30  | data not available |
| 18/04/2016                           | GW-1 | Manganese (diss) | ICP-MS         | Annual   | <2   | <2   | µg/l      | -     | 50  | data not available |
| 18/04/2016                           | GW-1 | Cobalt (diss)    | ICP-MS         | Annual   | <2   | <2   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-1 | Nickel (diss)    | ICP-MS         | Annual   | <2   | <2   | µg/l      | 15    | 20  | data not available |
| 18/04/2016                           | GW-1 | Copper (diss)    | ICP-MS         | Annual   | <2   | <2   | µg/l      | 1500  | 30  | data not available |
| 18/04/2016                           | GW-1 | Zinc (diss)      | ICP-MS         | Annual   | <2   | <2   | µg/l      | -     | 100 | data not available |
| 18/04/2016                           | GW-1 | Arsenic (diss)   | ICP-MS         | Annual   | <2   | <2   | µg/l      | 7.5   | 10  | data not available |
| 18/04/2016                           | GW-1 | Selenium (diss)  | ICP-MS         | Annual   | <2   | <2   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-1 | Silver (diss)    | ICP-MS         | Annual   | <2   | <2   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-1 | Cadmium (diss)   | ICP-MS         | Annual   | <2   | <2   | µg/l      | 3.75  | 5   | data not available |
| 18/04/2016                           | GW-1 | Tin (diss)       | ICP-MS         | Annual   | <2   | <2   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-1 | Antimony (diss)  | ICP-MS         | Annual   | <2   | <2   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-1 | Barium (diss)    | ICP-MS         | Annual   | 43   | 43   | µg/l      | -     | 100 | data not available |
| 18/04/2016                           | GW-1 | Lead (diss)      | ICP-MS         | Annual   | <2   | <2   | µg/l      | 18.75 | 10  | data not available |
| 18/04/2016                           | GW-1 | Sodium (diss)    | ICP-MS         | Annual   | 18   | 18   | µg/l      | 150   | 150 | data not available |
| 18/04/2016                           | GW-1 | Magnesium (diss) | ICP-MS         | Annual   | 11   | 11   | µg/l      | -     | 50  | data not available |
| 18/04/2016                           | GW-1 | Potassium (diss) | ICP-MS         | Annual   | 2.1  | 2.1  | mg/l      | -     | 5   | data not available |
| 18/04/2016                           | GW-1 | Calcium (diss)   | ICP-MS         | Annual   | 87   | 87   | mg/l      | -     | 200 | data not available |
| 18/04/2016                           | GW-1 | Iron (diss)      | ICP-MS         | Annual   | <0.1 | <0.1 | mg/l      | -     | 0.2 | data not available |
| 18/04/2016                           | GW-1 | Mercury (diss)   | ICP-MS         | Annual   | <1   | <1   | µg/l      | 0.75  | -   | data not available |
| 18/04/2016                           | GW-1 | E. Coli          | MTM025         | Annual   | 0    | 0    | cfu/100ml | -     | 0   | data not available |
| 18/04/2016                           | GW-1 | Coliforms        | MTM025         | Annual   | 31   | 31   | cfu/100ml | -     | 0   | data not available |
| 18/04/2016                           | GW-1 | US EPA           | GC-FID, GC-MS  | Annual   | <1   | <1   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-1 | Dichloromethane  | Based on USEPA | Annual   | <3   | <3   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-1 | Chloroform       | 524.2 method   | Annual   | 2.84 | 2.84 | µg/l      | -     | 12  | data not available |

| Date of sampling | Sample location reference | Parameter/ Substance | Methodology  | Monitoring frequency | Maximum Concentration++ | Average Concentration+ | unit     | GTV's*      | IGV     | Upward trend in pollutant concentration over last 5 years of monitoring data |
|------------------|---------------------------|----------------------|--|----------------------|-------------------------|------------------------|----------|-------------|---------|--|
| 18/04/2016       | GW-2A                     | pH                   | APHA 2012 4500 H&B                                     | Annual               | 7.7                     | 7.7                    | pH units | 6.5-9.5     | 6.5-9.5 | data not available   |
| 18/04/2016       | GW-2A                     | Conductivity @ 25°C  | APHA 2012 2510B  | Annual               | 898                     | 898                    | µS/cm    | 800-1875    | 1,000   | data not available   |
| 18/04/2016       | GW-2A                     | COD                  | APHA,2012 5220D  | Annual               | 20                      | 20                     | mg/l     | -           | -       | data not available   |
| 18/04/2016       | GW-2A                     | Ammonia NH3-N        | APHA 2012 4500-NH3 and bluebook Ammonia in waters 1981 | Annual               | 0.55                    | 0.55                   | mg/l     | -           | -       | data not available   |
| 18/04/2016       | GW-2A                     | Ammonium as NH4      | APHA 2012 4500-NH3 and bluebook Ammonia in waters 1981 | Annual               | 0.71                    | 0.71                   | mg/l     | 0.065-0.175 | 0.15    | data not available   |
| 18/04/2016       | GW-2A                     | Nitrate              | APHA 2012 4500-NO3-B. Colorimetric Method              | Annual               | 6.2                     | 6.2                    | mg/l     | 37.5        | 25      | data not available   |
| 18/04/2016       | GW-2A                     | Total Nitrogen       | APHA 2012 4500-NO3-B. Colorimetric Method              | Annual               | 9.1                     | 9.1                    | mg/l     | -           | -       | data not available   |
| 18/04/2016       | GW-2A                     | Chloride             | APHA 2012 4500-CL-E                                    | Annual               | 57                      | 57                     | mg/l     | 187.5       | 30      | data not available   |
| 18/04/2016       | GW-2A                     | Boron (dissolved)    | ICP-MS   | Annual               | 17                      | 17                     | µg/l     | 750         | 1000    | data not available   |
| 18/04/2016       | GW-2A                     | Beryllium (diss)     | ICP-MS   | Annual               | <2                      | <2                     | µg/l     | -           | -       | data not available   |
| 18/04/2016       | GW-2A                     | Aluminium (diss)     | ICP-MS   | Annual               | <2                      | <2                     | µg/l     | 150         | 200     | data not available   |
| 18/04/2016       | GW-2A                     | Chromium (diss)      | ICP-MS   | Annual               | <2                      | <2                     | µg/l     | 37.5        | 30      | data not available   |

| Groundwater/Soil monitoring template |       |                  |                | Lic No: | W0222-01 | Year | 2016      |       |     |                    |
|--------------------------------------|-------|------------------|----------------|---------|----------|------|-----------|-------|-----|--------------------|
| 18/04/2016                           | GW-2A | Manganese (diss) | ICP-MS         | Annual  | 62       | 62   | µg/l      | -     | 50  | data not available |
| 18/04/2016                           | GW-2A | Cobalt (diss)    | ICP-MS         | Annual  | <2       | <2   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-2A | Nickel (diss)    | ICP-MS         | Annual  | <2       | <2   | µg/l      | 15    | 20  | data not available |
| 18/04/2016                           | GW-2A | Copper (diss)    | ICP-MS         | Annual  | <2       | <2   | µg/l      | 1500  | 30  | data not available |
| 18/04/2016                           | GW-2A | Zinc (diss)      | ICP-MS         | Annual  | <2       | <2   | µg/l      | -     | 100 | data not available |
| 18/04/2016                           | GW-2A | Arsenic (diss)   | ICP-MS         | Annual  | <2       | <2   | µg/l      | 7.5   | 10  | data not available |
| 18/04/2016                           | GW-2A | Selenium (diss)  | ICP-MS         | Annual  | <2       | <2   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-2A | Silver (diss)    | ICP-MS         | Annual  | <2       | <2   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-2A | Cadmium (diss)   | ICP-MS         | Annual  | <2       | <2   | µg/l      | 3.75  | 5   | data not available |
| 18/04/2016                           | GW-2A | Tin (diss)       | ICP-MS         | Annual  | <2       | <2   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-2A | Antimony (diss)  | ICP-MS         | Annual  | <2       | <2   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-2A | Barium (diss)    | ICP-MS         | Annual  | 95       | 95   | µg/l      | -     | 100 | data not available |
| 18/04/2016                           | GW-2A | Lead (diss)      | ICP-MS         | Annual  | <2       | <2   | µg/l      | 18.75 | 10  | data not available |
| 18/04/2016                           | GW-2A | Sodium (diss)    | ICP-MS         | Annual  | 21       | 21   | µg/l      | 150   | 150 | data not available |
| 18/04/2016                           | GW-2A | Magnesium (diss) | ICP-MS         | Annual  | 11       | 11   | µg/l      | -     | 50  | data not available |
| 18/04/2016                           | GW-2A | Potassium (diss) | ICP-MS         | Annual  | 3.5      | 3.5  | mg/l      | -     | 5   | data not available |
| 18/04/2016                           | GW-2A | Calcium (diss)   | ICP-MS         | Annual  | 85       | 85   | mg/l      | -     | 200 | data not available |
| 18/04/2016                           | GW-2A | Iron (diss)      | ICP-MS         | Annual  | <0.1     | <0.1 | mg/l      | -     | 0.2 | data not available |
| 18/04/2016                           | GW-2A | Mercury (diss)   | ICP-MS         | Annual  | <1       | <1   | µg/l      | 0.75  | -   | data not available |
| 18/04/2016                           | GW-2A | E. Coli          | MTM025         | Annual  | 0        | 0    | cfu/100ml | -     | 0   | data not available |
| 18/04/2016                           | GW-2A | Coliforms        | MTM025         | Annual  | 5        | 5    | cfu/100ml | -     | 0   | data not available |
| 18/04/2016                           | GW-2A | US EPA           | GC-FID, GC-MS  | Annual  | <1       | <1   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-2A | Dichloromethane  | Based on USEPA | Annual  | <3       | <3   | µg/l      | -     | -   | data not available |
| 18/04/2016                           | GW-2A | Chloroform       | 524.2 method   | Annual  | <1       | <1   | µg/l      | -     | 12  | data not available |

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

.+ where average indicates arithmetic mean

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

**Table 2: Downgradient Groundwater monitoring results**

**Groundwater/Soil monitoring template** Lic No: W0222-01 Year 2016

| 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 (see the link in G31) [Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#).

\*\*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) [Groundwater](#) [Surface water EQS](#) [regulations](#) [GTV's](#) [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 |

GW2 was lost during site recommissioning . A new replacement groundwater monitoring well (GW-2A) was installed following approval by the Agency in February 2015.

|   |         |          |      |      |
|---|---------|----------|------|------|
| <b>Environmental Liabilities template</b> | Lic No: | W0222-01 | Year | 2016 |
|---|---------|----------|------|------|

[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            | ELRA agreed in 2014, Review carried out following remediation works completion |
| 3  | Amount of Financial Provision cover required as determined by the latest ELRA | €459,482.40                              |  |
| 4  | Financial Provision for ELRA status   | Submitted and agreed by EPA              |  |
| 5  | Financial Provision for ELRA - amount of cover                                | See above                                |  |
| 6  | Financial Provision for ELRA - type   | Bond                                     |  |
| 7  | Financial provision for ELRA expiry date                                      | 30/06/2017                               |  |
| 8  | Closure plan initial agreement status   | Closure plan submitted and agreed by EPA |  |
| 9  | Closure plan review status  | Review required and completed            | Review Carried out following remediation works completion                      |
| 10 | Financial Provision for Closure status  | Submitted and agreed by EPA              |  |
| 11 | Financial Provision for Closure - amount of cover                             | €419,103.10                              |  |
| 12 | Financial Provision for Closure - type  | bond                                     |  |
| 13 | Financial provision for Closure expiry date                                   | 30/06/2017                               |  |

|   |         |          |      |      |
|---|---------|----------|------|------|
| <b>Environmental Management Programme/Continuous Improvement Programme template</b> | Lic No: | W0222-01 | Year | 2016 |
|---|---------|----------|------|------|

|   | Highlighted cells contain dropdown menu click to view   |     | Additional Information   |
|---|---|-----|--|
| 1 | Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information   | Yes | The Licensee holds a fully NSAI accredited Integrated Management System incorporating Environmental (to ISO 14001:2004), Health & Safety (OHSAS 18001:2007) and Quality (ISO9002:2000). These management systems are maintained through onsite cooperation with the environmental officers and dedicated systems coordinators. They are audited on a bi-annual basis internally and externally on an annual basis. |
| 2 | Does the EMS reference the most significant environmental aspects and associated impacts on-site  | Yes | Yes an aspects register is maintained onsite and updated on an annual review basis   |
| 3 | Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements   | Yes | Yes Environmental objectives and targets are set on an annual basis and progress against targets is reviewed quarterly   |
| 4 | Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence | Yes | A file is available to view by members of the public at the facility if requested  |

#### Environmental Management Programme (EMP) report

| Objective Category                 | Target   | Status (% completed) | How target was progressed  | Responsibility | Intermediate outcomes                        |
|------------------------------------|--|----------------------|--|----------------|--|
| Reduction of emissions to Water    | Complete required repairs on storm water drainage network.                     | 100                  | Storm water lines repaired and replaced where necessary  | Individual     | Increased compliance                         |
| Reduction of emissions to Air      | Improve air quality with the Operations buidlings                              | 70                   | Repair the existng Dust suppression system within the buildings  | Section Head   | Reduced emissions                            |
| Materials Handling/Storage/Bunding | Increase containment onsite  | 80                   | Purchase and install a dedicated bunded container for oil storage - ensure that secondary temeporary bunding is in place to allow for increased defence  | Individual     | Increased compliance with licence conditions |
| Groundwater protection             | Remediate identified contaminated land to the southeastern corner of the site. | 95                   | Remedial Action plan was impjplemented in Autumn 2016, residual contamination is being treated in situ. Quarterly monitoring will continue for 2017. second in situ treatment to commence in June 2017 | Section Head   | Remediation of contamination on site.        |
| Additional improvements            | Decomission the onsite underground air drying chambers and ducts.              | 100                  |  | Section Head   | Reduced Emissions                            |
| Groundwater protection             | Carry out interim and total repairs to yard hard stand.                        | 100                  | Completed 2016   | Section Head   | Increased compliance with licence conditions |

| Environmental Management Programme/Continuous Improvement Programme template |                                 |        |  | Lic No:    | W0222-01                       | Year | 2016 |
|--|---------------------------------|--------|--|------------|--------------------------------|------|------|
| Additional improvements  | Intall a truck/bin wash         | 100    | Completed 2016   | Individual | Installation of infrastructure |      |      |
| Energy Efficiency/Utility conservation                                       | Reduction of fuel usage in 2016 | 100    | Super track technology to be installed on all vehicles. Ensure all drivers log their mileage with the diesel tank so that accurate data is collected and tracked. Route optimisation is ongoing. | Individual | Reduced emissions              |      |      |
| SELECT   |                                 | SELECT |  | SELECT     | SELECT                         |      |      |

**Noise monitoring summary report** Lic No: W0222-01 Year 2016

- 1 Was noise monitoring a licence requirement for the AER period?  
If yes please fill in table N1 noise summary below
- 2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?
- 3 Does your site have a noise reduction plan
- 4 When was the noise reduction plan last updated?
- 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

[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 <sub>eq</sub> | LA <sub>10</sub> | LA <sub>90</sub> | LA <sub>max</sub> | Tonal or Impulsive noise* (Y/N) | If tonal /impulsive noise was identified was 5dB penalty applied? | Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)   | Is site compliant with noise limits (day/evening/night)? |
|--------------------|-------------|--------------------------|---|------------------|------------------|------------------|-------------------|---------------------------------|---|--|--|
| 22/06/2016         | 30min       | N1                       |   | 59               | 63               | 54               | 72                | No                              | No  | engine within waste reception shed continuous and dominant throughout measurement.   | No   |
| 22/06/2016         | 30min       | N1                       |   | 63               | 64               | 61               | 71                | No                              | No  | Reversing alarms from plant machinery within reception shed occasionally audible.  |  |
| 22/06/2016         | 30min       | N1                       |   | 60               | 63               | 52               | 71                | No                              | No  | Occasional idle engine located at the front of the reception shed. Background – Passing road traffic on the R132 (60m) not clearly visible but occasionally faintly audible.                                   |  |
| 22/06/2016         | 30min       | N2                       |   | 68               | 71               | 60               | 87                | No                              | No  | Site –Traffic entering/exiting site and passing close to monitoring position (15m). Trucks entering/exiting main recycling shed (45m) + associated air break pressure release and reversing alarms - dominant. |  |
| 22/06/2016         | 30min       | N2                       |   | 68               | 71               | 63               | 86                | No                              | No  | Idle engines in front yard. Reversing alarms, glass breaking and trommel activity within reception shed  |  |
| 22/06/2016         | 30min       | N2                       |   | 65               | 70               | 59               | 84                | No                              | No  | (50/100m). Banging of skips with waste reception shed. Works audible from mechanic shed – air gun. Background – Road traffic on R132 (50m) audible.  |  |

|            |       |     |     |    |    |    |    |    |    |   |     |
|------------|-------|-----|-----|----|----|----|----|----|----|---|-----|
| 22/06/2016 | 30min | N3  |     | 64 | 66 | 58 | 84 | No | No | Site – Trommel and diesel engine operating within reception shed (10m) – dominant. Truck loading and offloading skips in front yard and traffic moving about with intermittent reversing alarms. Idle engines at front of reception sheds. Background – Birds singing and crows overhead  | No  |
| 22/06/2016 | 30min | N3  |     | 68 | 70 | 60 | 89 | No | No |   |     |
| 22/06/2016 | 30min | N3  |     | 63 | 64 | 58 | 83 | No | No |   |     |
| 22/06/2016 | 30min | N4  |     | 66 | 69 | 60 | 92 | No | No | Site – Traffic entering/exiting site (45-50m). Traffic activity in main yard not visible but audible during periods of low passing traffic on the adjacent public road. Movement of RoRo skips collection/drop off. Reversing tones of machinery around site. Idle engine on weigh bridge. LAFmax in round 1 due to banging of chains against skips during loading Background – Large volumes of passing traffic nearby (15m) R132 road – dominant. | No  |
| 22/06/2016 | 30min | N4  |     | 63 | 66 | 58 | 80 | No | No |   |     |
| 22/06/2016 | 30min | N4  |     | 64 | 67 | 57 | 84 | No | No |   |     |
| 22/06/2016 | 30min | NSL | NSL | 70 | 75 | 56 | 85 | No | No | Site – No audible site activity. Background – Passing road traffic on the R132 (5-10m) – dominant.  | Yes |
| 22/06/2016 | 30min | NSL | NSL | 73 | 77 | 55 | 88 | No | No |   |     |
| 22/06/2016 | 30min | NSL | NSL | 75 | 79 | 55 | 94 | No | No |   |     |

\*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?



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

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

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

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

**Additional information**

|                   |  |
|-------------------|--|
| Not yet completed |  |
| No                | AES is currently carrying out an Energy Review in order to progress the implementation of a group Energy Management System to accredited ISO50001 standard |
| SELECT            | Not Applicable   |

| 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)                | 397.160538    | 1513.650748  |  |  |
| Total Energy Generated (MWHrs)           |               |              |  |  |
| Total Renewable Energy Generated (MWHrs) |               |              |  |  |
| Electricity Consumption (MWHrs)          | 236.47        | 254.141      |  |  |
| Fossil Fuels Consumption:                |               |              |  |  |
| Heavy Fuel Oil (m3)                      |               |              |  |  |
| Light Fuel Oil (m3)                      | 123.892       | 447.59       |  |  |
| Natural gas (m3)                         |               |              |  |  |
| Coal/Solid fuel (metric tonnes)          |               |              |  |  |
| Peat (metric tonnes)                     |               |              |  |  |
| Renewable Biomass                        |               |              |  |  |
| Renewable energy generated on site       |               |              |  |  |

|            | 2015             | 2016        |
|------------|------------------|-------------|
| Conversion |                  |             |
| Kerosene   | 0.009821 MWh/ltr |             |
| Gasoil     | 0.010169 MWh/ltr |             |
| Med FO     | 0.010786 MWh/ltr |             |
| DERV       | 0.010169 MWh/ltr |             |
| Petrol     | 0.009269 MWh/ltr |             |
| DERV       | 15802            | 331835      |
| Gas Oil    | 107090           | 114255      |
| Kerosene   | 1000             | 1500        |
|            | 160.690538       | 160.690538  |
|            | 1088.99821       | 1161.859095 |
|            | 9.821            | 14.7315     |
|            | 1259.509748      | 1337.281133 |

\* 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

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

\* 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)        |       |          |              |          |       |

**Resource Usage/Energy efficiency summary** Lic No: W0222-01 Year 2016

| 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  |         |         |         |         |               |



| WASTE SUMMARY  |  | Lic No:             | W0222-01 | Year                               | 2016 |
|--|--|---------------------|----------|------------------------------------|------|
| 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)

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

If yes please enter details in table 1 below

2 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 |  |
|----|--|

3 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 |  |
|----|--|

**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 workbook)**

| Licensed annual tonnage limit for your site (total tonnes/annum) | EWC code   | Source of waste accepted   | Description of waste accepted<br>Please enter an accurate and detailed description - which applies to relevant EWC code | 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 - |
|--|--|--|---|---|--|--|---|---|--|---|------------|
|  | <a href="#">European Waste Catalogue EWC codes</a> |  | <a href="#">European Waste Catalogue EWC codes</a>  |   |  |  |   |   |  |   |            |
| 01 04 13   |  | 01- WASTE RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS           | Waste from Stone Cutting  | 32.12   | 13.14  | 59%  | Increased waste intake from customer                        | 0%  | R5-Recycling/reclamation or other inorganic materials which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials |   |            |
| 02 05 01   |  | 02- WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND        | Materials from the Dairy Industry unsuitable for consumption or processing  | 1.22  | 4.56   | -274%  | Waste diverted from customer directly to disposal site      | 0%  | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |   |            |
| 03 01 05   |  | 03- WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD              | Sawdust, shavings, cuttings, wood, particle board and veneer  | 0.00  | 4.14   | -100%  | Waste stream did not enter facility                         | 0%  | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |   |            |
| 07 05 14   |  | 07- WASTES FROM ORGANIC CHEMICAL PROCESSES   | Spent Blister packs   | 0.76  | 0.00   | 100%   | New waste stream  | 0%  | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |   |            |
| 11 01 10   |  | 11- WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY | Sludges and filter cakes other than those mentioned in 11 01 09   | 402.14  | 16.00  | 96%  | Increased waste intake from customer                        | 0%  | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |   |            |
| 15 01 01   |  | 15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED   | Paper and Cardboard Packaging   | 21.80   | 13.99  | 36%  | Increased waste intake from customer                        | 100%  | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |   |            |
| 15 01 02   |  | 15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED   | Plastic Packaging   | 12.69   | 17.00  | -34%   | Decrease in waste intake to site                            | 100%  | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |   |            |

| WASTE SUMMARY |  | Lic No: W0222-01  |        | Year   |       | 2016   |      |  |    |
|---------------|--|---|--------|--------|-------|--|------|--|----|
| 15 01 03      | 15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED | Wooden Packaging  | 203.29 | 241.92 | -19%  | increased commercial activity                          | 100% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 15 01 04      | 15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED | Metallic Packaging                                      | 301.82 | 0.00   | 100%  | New waste stream                                       | 100% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 15 01 05      | 15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED | Composite packaging                                     | 0.00   | 2.14   | -100% | Waste stream did not enter facility                    |      | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 15 01 06      | 15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED | Mixed Packaging   | 2.00   | 0.00   | 100%  | New waste stream                                       | 100% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 15 01 07      | 15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED | Commercial Glass Packaging                              | 15.60  | 23.20  | -49%  | Waste diverted from customer directly to recovery site | 100% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 16 01 03      | 16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST   | End-of-Life Tyres                                       | 0.00   | 0.36   | -100% | Waste stream did not enter facility                    | 0%   | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 16 03 06      | 16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST   | Non Hazardous organic waste (off specification batches) | 3.93   | 0.00   | 100%  | New waste stream                                       | 0%   | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 17 01 01      | 17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)                        | Concrete  | 537.75 | 0.00   | 100%  | New waste stream                                       | 0%   | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 17 01 03      | 17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)                        | Tiles & Ceramics  | 0.20   | 0.00   | 100%  | New waste stream                                       | 0%   | R5-Recycling/reclamation or other inorganic materials which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials |    |
| 17 01 07      | 17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)                        | Mixture of concrete bricks tiles and ceramics           | 799.84 | 0.00   | 100%  | New waste stream                                       | 0%   | R5-Recycling/reclamation or other inorganic materials which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials |    |
| 17 02 01      | 17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)                        | Wood from C&D sources                                   | 257.03 | 294.22 | -14%  | no significant change                                  | 0%   | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  | 15 |
| 17 02 02      | 17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)                        | Glass from C & D  | 2.28   | 9.78   | -329% | reduced waste intake                                   | 0%   | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 17 03 02      | 17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)                        | Non Hazardous Bituminous mixtures                       | 194.80 | 0.00   | 100%  | New waste stream                                       | 0%   | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 17 04 07      | 17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)                        | Mixed C & D Metals                                      | 92.98  | 19.76  | 79%   | better source segregation                              | 0%   | R4- Recycling/reclamation of metals and metal compounds  | 55 |

| WASTE SUMMARY |   | Lic No: W0222-01                                   |          | Year     |       | 2016                                      |    |  |    |  |
|---------------|---|--|----------|----------|-------|---|----|--|----|--|
| 17 04 11      | 17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)   | Metal Cable  | 2.32     | 0.00     | 100%  | better source segregation                 | 0% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |  |
| 17 05 04      | 17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)   | Soil and Stones                                    | 1140.04  | 41.22    | 96%   | Increased waste intake from customer      | 0% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |  |
| 17 08 02      | 17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)   | Gypsum-Based Construction Materials                | 25.06    | 15.10    | 40%   | Increased waste intake from customer      | 0% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  | 15 |  |
| 17 09 04      | 17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)   | Mixed C & D Wastes                                 | 46911.30 | 57135.98 | -22%  | reduced waste intake - better segregation | 0% | R5-Recycling/reclamation or other inorganic materials which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials |    |  |
| 19 08 01      | 19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE | Screenings from WWTP                               | 0.00     | 1.00     | -100% | Waste stream did not enter facility       |    | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |  |
| 19 08 02      | 19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE | Waste from Desanding                               | 23.64    | 73.06    | -209% | reduced waste intake from customer        | 0% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |  |
| 19 09 01      | 19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE | Solid waste from Primary filtration and screenings | 19.55    | 0.00     | 100%  | New waste stream                          | 0% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |  |
| 19 09 05      | 19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE | Spent resin from Ion Exchange                      | 0.00     | 15.56    | -100% | waste diverted from site                  | 0% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |  |
| 19 12 03      | 19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE | Mechanically processed Ferrous Metals              | 1.32     | 0.00     | 100%  | New waste stream                          | 0% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |  |
| 19 12 09      | 19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE | Minerals   | 470.40   | 0.00     | 100%  | New waste stream                          | 0% | R5-Recycling/reclamation or other inorganic materials which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials |    |  |

| WASTE SUMMARY |   | Lic No: W0222-01                                   |        | Year    |       | 2016  |  |    |
|---------------|---|--|--------|---------|-------|---|--|----|
| 19 12 12      | 19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE | C&D Fines Inert                                    | 25.36  | 112.96  | -345% | waste diverted from site                      | R5-Recycling/reclamation or other inorganic materials which includes soil cleaning resulting in recovery of the soil and recycling of inorganic construction materials | 85 |
| 20 01 01      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS                                 | Municipal Paper and Cardboard                      | 52.84  | 51.60   | 2%    | improved segregation                          | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 20 01 02      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS                                 | Municipal Glass                                    | 0.00   | 1.86    | -100% | improved segregation                          | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 20 01 08      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS                                 | Commercial Biodegradable Kitchen and Canteen Waste | 10.64  | 9.38    | 12%   | improved segregation                          | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 20 01 36      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS                                 | Non-Hazardous WEEE                                 | 8.08   | 5.90    | 27%   | Increased waste intake from customer          | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 20 01 38      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS                                 | Municipal Wood                                     | 221.28 | 338.28  | -53%  | reduced waste intake                          | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 20 01 39      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS                                 | Municipal Plastic                                  | 2.66   | 0.50    | 81%   | increased customer numbers                    | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 20 01 40      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS                                 | Municipal Metals                                   | 459.75 | 193.15  | 58%   | increased customer numbers                    | R4- Recycling/reclamation of metals and metal compounds  |    |
| 20 02 01      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS                                 | Garden and Park Wastes                             | 351.00 | 5.76    | 98%   | Waste stream diverted to AES Lusk             | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 20 03 01      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS                                 | Commercial Mixed Dry Recyclables                   | 964.16 | 1456.01 | -51%  | waste stream diverted to third party facility | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |

| WASTE SUMMARY |   | Lic No: W0222-01                 |          | Year     |       | 2016  |     |  |    |
|---------------|---|----------------------------------|----------|----------|-------|---|-----|--|----|
| 20 03 01      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS | Commercial Mixed Municipal Waste | 18577.99 | 20581.22 | -11%  | waste stream diverted to third party facility | 20% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 20 03 01      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS | Domestic Mixed Dry Recyclables   | 9.84     | 11.86    | -21%  | reduced waste intake                          | 75% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  | 10 |
| 20 03 01      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS | Domestic Mixed Municipal Waste   | 1960.89  | 5123.99  | -161% | waste stream diverted to third party facility | 25% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  | 15 |
| 20 03 03      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS | Street-Cleansing residues        | 1635.37  | 1668.79  | -2%   | no significant change                         | 0%  | R4- Recycling/reclamation of metals and metal compounds  |    |
| 20 03 06      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS | Waste from Sewage Cleaning       | 214.82   | 193.26   | 10%   | Increased waste intake from customer          | 0%  | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)  |    |
| 20 03 07      | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS | Bulky waste                      | 15084.77 | 3219.64  | 79%   | increased customer numbers                    | 0%  | R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, separating, blending or mixing prior to submission to any of the operations numbered R1 to R11) | 25 |

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

4 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 | Yes. Fire water retention wall scheduled to be built in June 2016 |
|-----|---|

5 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 SITES ONLY**

**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**





| WASTE SUMMARY |  | Lic No: | W0222-01 | Year | 2016 |
|---------------|--|---------|----------|------|------|
|---------------|--|---------|----------|------|------|

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

| meteorological monitoring in compliance with Landfill Directive (LD) standard in | Was leachate monitored in compliance with LD standard in reporting year | Was Landfill Gas monitored in compliance with LD standard in reporting year | Was SW monitored in compliance with LD standard in reporting year | Have GW trigger levels been established | Were emission limit values agreed with the Agency (ELVs) | Was topography of the site surveyed in reporting year | 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 | Area with 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

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

SELECT

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

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

**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  |          |



Environmental Protection Agency

| PRTR# : W0222 | Facility Name : Advanced Environmental Solutions (Ireland) Limited (Lusk) | Filename : w0222\_2016.xls | Return Year : 2016 |

[Guidance to completing the PRTR workbook](#)

# PRTR Returns Workbook

Version 1.1.19

|                       |      |
|-----------------------|------|
| <b>REFERENCE YEAR</b> | 2016 |
|-----------------------|------|

## 1. FACILITY IDENTIFICATION

|                            |   |
|----------------------------|---|
| Parent Company Name        | Advanced Environmental Solutions (Ireland) Limited        |
| Facility Name              | Advanced Environmental Solutions (Ireland) Limited (Lusk) |
| PRTR Identification Number | W0222   |
| Licence Number             | W0222-01  |

### Classes of Activity

| No. | class_name                           |
|-----|--------------------------------------|
| -   | Refer to PRTR class activities below |

|  |                              |
|--|------------------------------|
| Address 1                                      | Coldwinters                  |
| Address 2                                      | Blakescross                  |
| Address 3                                      | Lusk                         |
| Address 4                                      |                              |
|  | Dublin                       |
| Country  | Ireland                      |
| Coordinates of Location                        | -6.19218 53.5045             |
| River Basin District                           | IEEA                         |
| NACE Code                                      | 3832                         |
| Main Economic Activity                         | Recovery of sorted materials |
| <b>AER Returns Contact Name</b>                | Charlotte Greene             |
| <b>AER Returns Contact Email Address</b>       | charlotte.greene@bnm.ie      |
| <b>AER Returns Contact Position</b>            | Environmental Officer        |
| <b>AER Returns Contact Telephone Number</b>    | 045439492                    |
| <b>AER Returns Contact Mobile Phone Number</b> | 0877697465                   |
| <b>AER Returns Contact Fax Number</b>          |                              |
| <b>Production Volume</b>                       | 0.0                          |
| <b>Production Volume Units</b>                 |                              |
| <b>Number of Installations</b>                 | 0                            |
| <b>Number of Operating Hours in Year</b>       | 0                            |
| <b>Number of Employees</b>                     | 15                           |
| <b>User Feedback/Comments</b>                  |                              |
| <b>Web Address</b>                             | http://www.aesirl.ie         |

## 2. PRTR CLASS ACTIVITIES

| Activity Number | Activity Name   |
|-----------------|---|
| 50.1            | General   |
| 5(c)            | Installations for the disposal of non-hazardous waste |
| 50.1            | General   |

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

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

**4. WASTE IMPORTED/ACCEPTED ONTO SITE**

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

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

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0222 | Facility Name : Advanced Environmental Solutions (Ireland) Limited (Lusk) | Filename : w0222\_2016.xls | Return Year : 2016 |

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**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

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

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

**SECTION B : REMAINING PRTR POLLUTANTS**

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

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

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

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

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

**Additional Data Requested from Landfill operators**

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

| Advanced Environmental Solutions (Ireland) Limited (Lusk)                                    |                   |       |             |                            |                                     |
|--|-------------------|-------|-------------|----------------------------|-------------------------------------|
| Landfill:<br>Please enter summary data on the quantities of methane flared and / or utilised | T (Total) kg/Year | M/C/E | Method Used |                            | Facility Total Capacity m3 per hour |
|  |                   |       | Method Code | Designation or Description |                                     |
| Total estimated methane generation (as per site model)                                       | 0.0               |       |             |                            | N/A                                 |
| Methane flared   | 0.0               |       |             |                            | 0.0 (Total Flaring Capacity)        |
| Methane utilised in engine/s   | 0.0               |       |             |                            | 0.0 (Total Utilising Capacity)      |
| Net methane emission (as reported in Section A above)  | 0.0               |       |             |                            | N/A                                 |

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR# : W0222 | Facility Name : Advanced Environmental Solutions (Ireland) Limited (Lusk) | Filename : w0222\_2016.xls | Return Year : 2016 |

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**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this

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

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

**SECTION B : REMAINING PRTR POLLUTANTS**

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

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

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

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

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0222 | Facility Name : Advanced Environmental Solutions (Ireland) Limited (Lusk) | File name

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**SECTION A : PRTR POLLUTANTS**

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

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

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

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

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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : W0222 | Facility Name : Advanced Environmental Solutions (Ireland) Limited (Lusk) | Filename : w0222\_2016.xls | Return Year : 2016 |

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**SECTION A : PRTR POLLUTANTS**

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

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

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

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

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



5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0222 | Facility Name : Advanced Environmental Solutions (Ireland) Limited (Lusk) | Filename : w0222\_2016.xls | Return Year : 2016 |

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Please enter all quantities on this sheet in Tonnes

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| Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste  | Waste Treatment Operation | Method Used |             | Location of Treatment | Licence/Permit No of Next Destination Facility<br>Haz Waste: Name and Licence/Permit No of Recover/Disposer<br>Non-Haz Waste: Address of Recover/Disposer | Haz Waste: Address of Next Destination Facility<br>Non-Haz Waste: Address of Recover/Disposer                                      | Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)           | Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) |  |
|----------------------|---------------------|-----------|----------------------------|---|---------------------------|-------------|-------------|-----------------------|---|--|--|--|--|
|                      |                     |           |                            |   |                           | M/C/E       | Method Used |                       |   |  |  |  |  |
| Within the Country   | 15 01 02            | No        | 0.0                        | plastic packaging   | R3                        | M           | Weighed     | Offsite in Ireland    | Lenviron Ltd TA Leinster Environmental, WFP-LH-11-0002-01   | Resource Renewal Centre ,Clermont Park ,Haggardstown Dundalk ,Co. Louth ,Ireland Ballymount Road ,,,Walkinstown,Dublin 12 ,Ireland |  |  |  |
| Within the Country   | 15 01 02            | No        | 0.0                        | plastic packaging   | R3                        | M           | Weighed     | Offsite in Ireland    | Irish Packaging Recycling Ltd,W0263-01  | Oristown Auto Recyclers Ltd,WFP-MH-0001-01   |  |  |  |
| Within the Country   | 16 01 03            | No        | 8.6                        | end-of-life tyres   | R13                       | M           | Weighed     | Offsite in Ireland    | Wilton Waste Recycling Ltd,WFP-CN-15-0003-01  | Kiffagh ,Crosferlough ,,,Co. Cavan,Ireland   |  |  |  |
| Within the Country   | 16 01 03            | No        | 14.58                      | end-of-life tyres   | R13                       | M           | Weighed     | Offsite in Ireland    | Wilton Waste Recycling Ltd,WFP-CN-15-0003-01  | Kiffagh ,Crosferlough ,,,Co. Cavan,Ireland   | HJ Enthoven & Sons ,BL5598IR,Darley Dale Smelter, South Darley,Matlock,Derbyshire DE4 2LP,United Kingdom | Darley Dale Smelter, South Darley,Matlock,Derbyshire DE4 2LP,United Kingdom                    |  |
| Within the Country   | 16 06 01            | Yes       | 5.8                        | lead batteries  | R13                       | M           | Weighed     | Offsite in Ireland    | Wilton Waste Recycling Ltd,WFP-CN-15-0003-01  | Thomtons Recycling Wood Chipping Facility (PDM Ltd) ,WFP-KE-10-0061-01   | Kiffagh ,Crosferlough ,,,Co. Cavan,Ireland   |  |  |
| Within the Country   | 17 02 01            | No        | 0.0                        | wood cables other than those mentioned in 17 04   | R3                        | M           | Weighed     | Offsite in Ireland    | Wilton Waste Recycling Ltd,WFP-CN-15-0003-01  | Damen Fitzsimons,WFP-MH-10-0004-01   | Oldmilltown ,Kill ,,,Co. Kildare,Ireland   |  |  |
| Within the Country   | 17 04 11            | No        | 19.8                       | soil and stones other than those mentioned in 17 05 03  | R4                        | M           | Weighed     | Offsite in Ireland    | Wilton Waste Recycling Ltd,WFP-CN-15-0003-01  | Harristown ,,,Navan ,Co. Meath ,Ireland  |  |  |  |
| Within the Country   | 17 05 04            | No        | 339.43                     | mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03  | R5                        | M           | Weighed     | Offsite in Ireland    | Nurendale Ltd TA Panda Waste Services,W0140-03  | Wilton Waste Recycling Ltd,WFP-CN-15-0003-01   | Rathdrinagh ,Beauparc ,Navan ,Co. Meath,Ireland  |  |  |
| Within the Country   | 19 12 02            | No        | 2542.82                    | ferrous metal   | R4                        | M           | Weighed     | Offsite in Ireland    | Wilton Waste Recycling Ltd,WFP-CN-15-0003-01  | Wilton Waste Recycling Ltd,WFP-CN-15-0003-01   | Kiffagh ,Crosferlough ,,,Co. Cavan,Ireland   |  |  |
| Within the Country   | 19 12 03            | No        | 249.72                     | non-ferrous metal   | R4                        | M           | Weighed     | Offsite in Ireland    | Wilton Waste Recycling Ltd,WFP-CN-15-0003-01  | Thomtons Recycling Wood Chipping Facility (PDM Ltd) ,WFP-KE-10-0061-01   | Oldmilltown ,Kill ,,,Co. Kildare,Ireland   |  |  |
| Within the Country   | 19 12 07            | No        | 490.48                     | wood other than that mentioned in 19 12 06 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 | R13                       | M           | Weighed     | Offsite in Ireland    | Midland Waste Disposal Ltd,W0131-02   | Proudstown Road,Clonmagadden,Navan, Co. Meath,Ireland  |  |  |  |
| Within the Country   | 19 12 12            | No        | 0.0                        | 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12   | R13                       | M           | Weighed     | Offsite in Ireland    | Drehid Waste Facility,W0201-03  | Killinagh Upper ,Carbury ,,,Kildare ,Ireland   |  |  |  |
| Within the Country   | 19 12 12            | No        | 2897.03                    | 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12   | D5                        | M           | Weighed     | Offsite in Ireland    | Drehid Waste Facility,W0201-03  | Killinagh Upper ,Carbury ,,,Kildare ,Ireland   |  |  |  |
| Within the Country   | 19 12 12            | No        | 0.0                        | 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12   | R3                        | M           | Weighed     | Offsite in Ireland    | Drehid Waste Facility,W0201-03  | Killinagh Upper ,Carbury ,,,Kildare ,Ireland   |  |  |  |
| Within the Country   | 19 12 12            | No        | 45566.54                   | 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12   | R5                        | M           | Weighed     | Offsite in Ireland    | Drehid Waste Facility,W0201-03  | Killinagh Upper ,Carbury ,,,Kildare ,Ireland   |  |  |  |
| Within the Country   | 19 12 12            | No        | 215.9                      | 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12   | R12                       | M           | Weighed     | Offsite in Ireland    | Pacon Waste,P1014-01  | Stephenstown Business Park,Balbriggan,,County Meath,Ireland  |  |  |  |
| Within the Country   | 19 12 12            | No        | 1852.54                    | 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12   | R1                        | M           | Weighed     | Offsite in Ireland    | Indaver Ireland Ltd,W0167-03  | Carranstown ,,,Dulleek ,Co. Meath ,Ireland   |  |  |  |
| Within the Country   | 19 12 12            | No        | 295.62                     | 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12   | R12                       | M           | Weighed     | Offsite in Ireland    | Nurendale Ltd TA Panda Waste Services,W0140-03  | Rathdrinagh ,Beauparc ,Navan ,Co. Meath,Ireland  |  |  |  |
| Within the Country   | 19 12 12            | No        | 5361.83                    | 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12   | R12                       | M           | Weighed     | Offsite in Ireland    | Thomtons Recycling Centre Padraig Thornton Waste Disposal Ltd,W0044-02  | Killeen Road ,Ballyfermot ,,,Dublin 10 ,Ireland  |  |  |  |

| Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste   | Waste Treatment Operation | Method Used |             | Location of Treatment | Licence/Permit No of Next Destination Facility<br>Haz Waste: Name and Licence/Permit No of Recover/Disposer<br>Non-Haz Waste: Address of Recover/Disposer | Haz Waste: Address of Next Destination Facility<br>Non-Haz Waste: Address of Recover/Disposer | Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY) | Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) |
|----------------------|---------------------|-----------|----------------------------|--|---------------------------|-------------|-------------|-----------------------|---|---|--|--|
|                      |                     |           |                            |  |                           | M/C/E       | Method Used |                       |   |   |  |  |
| Within the Country   | 20 01 40            | No        | 0.0                        | metals   | R4                        | M           | Weighed     | Offsite in Ireland    | Wilton Waste Recycling Ltd,WFP-CN-15-0003-01  | Kiffagh ,Crosserlough ,",Co. Cavan,Ireland  |  |  |
| Within the Country   | 20 02 01            | No        | 340.86                     | biodegradable waste  | R3                        | M           | Weighed     | Offsite in Ireland    | Bord na Mona PLC (Kilberry),W0198-01  | Kilberry ,",Athy ,Co. Kildare ,Ireland  |  |  |
| Within the Country   | 20 03 01            | No        | 852.66                     | mixed municipal waste  | R13                       | M           | Weighed     | Offsite in Ireland    | Midland Waste Disposal Ltd,W0131-02   | Road,Clonmagadden,Navan, Co. Meath,Ireland  |  |  |
| Within the Country   | 20 03 01            | No        | 0.0                        | mixed municipal waste  | R13                       | M           | Weighed     | Offsite in Ireland    | Nurendale Ltd TA Panda Waste Services,W0140-03  | Rathdrinagh ,Beauparc ,Navan ,Co. Meath,Ireland   |  |  |
| Within the Country   | 20 03 01            | No        | 0.0                        | mixed municipal waste  | R13                       | M           | Weighed     | Offsite in Ireland    | AES Tullamore,W0104-03  | Cappanure Industrial Estate,Tullamore,County Offaly,Ireland                                   |  |  |
| Within the Country   | 20 03 01            | No        | 1577.48                    | mixed municipal waste  | D5                        | M           | Weighed     | Offsite in Ireland    | Knockharley Landfill Ltd,W0146-02   | Knockharley ,(Includes Townlands of Tuiterath & Flemingstown) ,Navan ,Co. Meath,Ireland       |  |  |
| Within the Country   | 20 03 01            | No        | 1149.48                    | mixed municipal waste  | R1                        | M           | Weighed     | Offsite in Ireland    | Indaver ,W0167-02   | Duleek,County Meath,Ireland   |  |  |
| Within the Country   | 20 03 01            | No        | 0.0                        | mixed municipal waste  | R3                        | M           | Weighed     | Offsite in Ireland    | Thorntons Recycling Centre Padraig Thornton Waste Disposal Ltd,W0044-02   | Killeen Road ,Ballyfermot ,",Dublin 10 ,Ireland   |  |  |
| Within the Country   | 20 03 01            | No        | 0.0                        | mixed municipal waste  | R13                       | M           | Weighed     | Offsite in Ireland    | Nurendale Ltd. TA Panda Waste Services,W0039-02   | Ballymount Cross ,",Tallaght ,Dublin 24 ,Ireland  |  |  |
| Within the Country   | 20 03 01            | No        | 0.0                        | mixed municipal waste  | R13                       | M           | Weighed     | Offsite in Ireland    | Thorntons Recycling Centre Padraig Thornton Waste Disposal Ltd,W0044-02   | Killeen Road ,Ballyfermot ,",Dublin 10 ,Ireland   |  |  |
| To Other Countries   | 20 03 01            | No        | 0.0                        | mixed municipal waste  | R13                       | M           | Weighed     | Abroad                | Re-Gen Waste (Ireland) Ltd,NI44110  | Unit 7 Shepherds Drive ,Cambane Industrial Estate ,Newry Co. Down,BT35 6JQ,United Kingdom     |  |  |
| Within the Country   | 20 03 07            | No        | 0.0                        | bulky waste  | D5                        | M           | Weighed     | Offsite in Ireland    | Thorntons Recycling Centre Padraig Thornton Waste Disposal Ltd,W0044-02   | Killeen Road ,Ballyfermot ,",Dublin 10 ,Ireland   |  |  |
| Within the Country   | 15 01 03            | No        | 20.0                       | wooden packaging   | R12                       | M           | Weighed     | Offsite in Ireland    | Wilton Waste Recycling Ltd,WFP-CN-15-0003-01  | Kiffagh ,Crosserlough ,",Co. Cavan,Ireland  |  |  |
| Within the Country   | 15 01 07            | No        | 1.84                       | glass packaging  | R5                        | M           | Weighed     | Offsite in Ireland    | Johmick Ltd,WFP-FG-13-0001-01   | Borranstown ,",Ashbourne, Co Meath ,Ireland   |  |  |
| Within the Country   | 16 01 03            | No        | 23.38                      | end-of-life tyres  | R13                       | M           | Weighed     | Offsite in Ireland    | Ecological Waste Management Ltd,WFP-LH-14-0004-01   | Clermont Business Park,,Dundalk,Co Louth,Ireland  |  |  |
| Within the Country   | 16 05 05            | No        | 2.0                        | those mentioned in 16 05 04  | R13                       | M           | Weighed     | Offsite in Ireland    | Wilton Waste Recycling Ltd,WFP-CN-15-0003-01  | Kiffagh ,Crosserlough ,",Co. Cavan,Ireland  |  |  |
| Within the Country   | 19 12 07            | No        | 3277.8                     | wood other than that mentioned in 19 12 06   | R13                       | M           | Weighed     | Offsite in Ireland    | Starrus Eco Holdings Ltd (Fassaroe),W0053-03  | Bray Depot La Vallee House,Fassaroe,Bray,Co Wicklow,Ireland                                   |  |  |
| Within the Country   | 19 12 07            | No        | 568.78                     | wood other than that mentioned in 19 12 06   | R13                       | M           | Weighed     | Offsite in Ireland    | Waller's Lot Civic Amenity Site South Tipp Co. Co.,W0200-01   | Waller's Lot,,Cashel,Co Tipperary,Ireland   |  |  |
| Within the Country   | 19 12 12            | No        | 2195.95                    | other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 | R5                        | M           | Weighed     | Offsite in Ireland    | Boliden Tara Mines Designated Activity Company,P0516-04   | Knockumber ,Navan,Co Meath,Ireland  |  |  |
| Within the Country   | 19 12 12            | No        | 812.0                      | other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 | R12                       | M           | Weighed     | Offsite in Ireland    | Greyhound Recycling & Recovery Ltd,W0205-01   | Crag Avenue,Clondalkin Industrial Estate,Clondalkin,Dublin 22,Ireland                         |  |  |
| Within the Country   | 19 12 12            | No        | 2150.62                    | other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 | R12                       | M           | Weighed     | Offsite in Ireland    | Wilton Waste Recycling Ltd,WFP-CN-15-0003-01  | Kiffagh ,Crosserlough ,",Co. Cavan,Ireland  |  |  |

| Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste  | Waste Treatment Operation | Method Used |             | Location of Treatment | Licence/Permit No of Next Destination Facility              |   | Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY) | Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) |
|----------------------|---------------------|-----------|----------------------------|---|---------------------------|-------------|-------------|-----------------------|---|---|--|--|
|                      |                     |           |                            |   |                           | 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   | 19 12 12            | No        | 275.9                      | other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 | 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        | 1724.66                    | other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 | D5                        | M           | Weighed     | Offsite in Ireland    | Knockharley Landfill Ltd,W0146-02                           | Knockharley ,(Includes Townlands of Tuiterrath & Flemingstown) ,Navan ,Co. Meath ,Ireland |  |  |
| Within the Country   | 20 01 38            | No        | 56.26                      | wood other than that mentioned in 20 01 37  | R12                       | M           | Weighed     | Offsite in Ireland    | Clonmel waste Disposal Ltd,WFP-TS-11-0001-03                | Lawesstown ,Clonmel ,Co Tipperary,Ireland   |  |  |
| Within the Country   | 20 01 38            | No        | 654.64                     | wood other than that mentioned in 20 01 37  | R13                       | M           | Weighed     | Offsite in Ireland    | Waller's Lot Civic Amenity Site South Tipp Co. Co.,W0200-01 | Waller's Lot ,Cashel,Co Tipperary,Ireland   |  |  |
| Within the Country   | 20 03 01            | No        | 208.86                     | mixed municipal waste   | D5                        | M           | Weighed     | Offsite in Ireland    | Drehid Waste Facility,W0201-03                              | Killinagh Upper ,Carbury ,Co. Kildare ,Ireland  |  |  |
| Within the Country   | 20 03 01            | No        | 1038.2                     | mixed municipal waste   | R12                       | M           | Weighed     | Offsite in Ireland    | Thomtons Recycling DMR Facility,WFP-DC-10-0021-02           | Road,Parkwest Business Park,Dublin 12,Ireland   |  |  |
| Within the Country   | 20 03 03            | No        | 7640.7                     | street-cleaning residues  | D5                        | M           | Weighed     | Offsite in Ireland    | Drehid Waste Facility,W0201-03                              | Killinagh Upper ,Carbury ,Co. Kildare ,Ireland  |  |  |
| Within the Country   | 20 03 03            | No        | 4978.4                     | street-cleaning residues  | D5                        | M           | Weighed     | Offsite in Ireland    | Knockharley Landfill Ltd,W0146-02                           | Knockharley ,(Includes Townlands of Tuiterrath & Flemingstown) ,Navan ,Co. Meath ,Ireland |  |  |
| Within the Country   | 20 03 03            | No        | 310.6                      | street-cleaning residues  | D5                        | M           | Weighed     | Offsite in Ireland    | Ballynagran Landfill Ltd,W0165-02                           | Ballynagran ,Coolbeg and Kilcandra ,Co Wicklow ,Ireland                                   |  |  |

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