

| Facility Information Summary   |   |
|--|---|
| AER Reporting Year   | 2016  |
| Licence Register Number  | W0275-01  |
| Name of site   | Drumman Materials Recycling and Waste Transfer Facility       |
| Site Location  | Drumman, in the Townland of Derrygreenagh, Co. Offaly, Offaly |
| NACE Code  |   |
| Class/Classes of Activity  | D13, D14, D15, R3, R4, R5, R12 & R13                          |
| 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> | Facility has not been built. Site is not in operation.        |

**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.

|   |                |
|---|----------------|
|  | 03rd July 2017 |
| Signature   | Date           |
| Group/Facility manager  |                |
| (or nominated, suitably qualified and experienced deputy)                           |                |

**AIR-summary template** Lic No: W0275-01 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

|        |                        |
|--------|------------------------|
| SELECT | 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](#) note AG2 and using the basic air monitoring checklist? [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: | W0275-01 | 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 |
|------------------------|----------------------|--|------------------|---------------------|----------------------|-----------------|----------------|---------------------------------------|---|----------|
|                        | SELECT               |  |                  | SELECT              | SELECT               |                 |                |                                       |   |          |
|                        | SELECT               |  |                  |                     | SELECT               |                 |                |                                       |   |          |
|                        | SELECT               |  |                  |                     | SELECT               |                 |                |                                       |   |          |
|                        | SELECT               |  |                  |                     | SELECT               |                 |                |                                       |   |          |
|                        | SELECT               |  |                  |                     | SELECT               |                 |                |                                       |   |          |

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

**Table A3: Abatement system bypass reporting table** [Bypass protocol](#)

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

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

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



**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)** Lic No: W0275-01 Year 2016

| Additional information   |        |
|--|--------|
| <p>Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If <b>you do not have</b> licensed emissions you <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections</p> | SELECT |
| <p>Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising <u>only any evidence of contamination noted during visual inspections</u></p>  | SELECT |

**Table W1 Storm water monitoring**

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

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

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

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

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

|   |        |  |
|---|--------|--|
| <p>Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below</p>   | SELECT | Additional information   |
| <p>Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box</p> | SELECT | <p><a href="#">External/Internal Lab Quality checklist</a> <a href="#">Assessment of results checklist</a></p> |

**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 <sup>note 2</sup> | Licence Compliance criteria | Measured value | Unit of measurement | Compliant with licence | Method of analysis | Procedural reference source | Procedural reference standard number | Annual mass load (kg) | Comments |
|------------------------|----------------------|-----------------------------|----------------|-------------------------|------------------|--|-----------------------------|----------------|---------------------|------------------------|--------------------|-----------------------------|--------------------------------------|-----------------------|----------|
|                        | SELECT               | SELECT                      | SELECT         |                         | SELECT           |  | SELECT                      |                | SELECT              | SELECT                 | SELECT             | SELECT                      |                                      |                       |          |
|                        |                      |                             |                |                         |                  |  |                             |                |                     |                        |                    |                             |                                      |                       |          |

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

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

**Continuous monitoring**

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

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

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

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

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

**Table W4: Summary of average emissions -continuous monitoring**

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

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





|   |                  |            |
|---|------------------|------------|
| <b>Groundwater/Soil monitoring template</b> | Lic No: W0275-01 | Year: 2016 |
|---|------------------|------------|

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

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

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

## Groundwater/Soil monitoring template

Lic No:

W0275-01

Year

2016

Table 3: Soil results

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

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

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

|    |   | Commentary        |  |
|----|---|-------------------|--|
| 1  | ELRA initial agreement status   | SELECT            |  |
| 2  | ELRA review status  | SELECT            |  |
| 3  | Amount of Financial Provision cover required as determined by the latest ELRA | Specify           |  |
| 4  | Financial Provision for ELRA status   | SELECT            |  |
| 5  | Financial Provision for ELRA - amount of cover                                | Specify           |  |
| 6  | Financial Provision for ELRA - type   | SELECT            |  |
| 7  | Financial provision for ELRA expiry date                                      | Enter expiry date |  |
| 8  | Closure plan initial agreement status   | SELECT            |  |
| 9  | Closure plan review status  | SELECT            |  |
| 10 | Financial Provision for Closure status  | SELECT            |  |
| 11 | Financial Provision for Closure - amount of cover                             | Specify           |  |
| 12 | Financial Provision for Closure - type  | SELECT            |  |
| 13 | Financial provision for Closure expiry date                                   | Enter expiry date |  |

**Environmental Management Programme/Continuous Improvement Programme template** Lic No: W0275-01 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   | SELECT |  |
| 2 | Does the EMS reference the most significant environmental aspects and associated impacts on-site  | SELECT |  |
| 3 | Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements   | SELECT |  |
| 4 | Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence | SELECT |  |

**Environmental Management Programme (EMP) report**

| Objective Category | Target | Status (% completed) | How target was progressed | Responsibility | Intermediate outcomes |
|--------------------|--------|----------------------|---------------------------|----------------|-----------------------|
| SELECT             |        | SELECT               |                           | SELECT         | SELECT                |
| SELECT             |        | SELECT               |                           | SELECT         | SELECT                |
| SELECT             |        | SELECT               |                           | SELECT         | SELECT                |

**Noise monitoring summary report** Lic No: W0275-01 Year 2016

- 1 Was noise monitoring a licence requirement for the AER period?  
If yes please fill in table N1 noise summary below SELECT
- 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? SELECT  
[Noise Guidance note NG4](#)
- 3 Does your site have a noise reduction plan SELECT
- 4 When was the noise reduction plan last updated? Enter date
- 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey? SELECT

**Table N1: Noise monitoring summary**

| Date of monitoring | Time period | Noise location (on site) | Noise sensitive location -NSL (if applicable) | LA <sub>eq</sub> | LA <sub>90</sub> | LA <sub>10</sub> | LA <sub>max</sub> | Tonal or Impulsive noise* (Y/N) | If tonal /impulsive noise was identified was 5dB penalty applied? | Comments (ex. main noise sources on site, & extraneous noise ex. road traffic) | Is site compliant with noise limits (day/evening/night)? |
|--------------------|-------------|--------------------------|---|------------------|------------------|------------------|-------------------|---------------------------------|---|--|--|
|                    |             |                          |   |                  |                  |                  |                   | SELECT                          | SELECT  |  | SELECT   |
|                    |             |                          |   |                  |                  |                  |                   |                                 |   |  |  |
|                    |             |                          |   |                  |                  |                  |                   |                                 |   |  |  |
|                    |             |                          |   |                  |                  |                  |                   |                                 |   |  |  |
|                    |             |                          |   |                  |                  |                  |                   |                                 |   |  |  |

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

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

SELECT

\*\* please explain the reason for not taking action/resolution of noise issues?

Any additional comments? (less than 200 words)

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- 2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

**Additional information**

|                     |  |
|---------------------|--|
| Enter date of audit |  |
| SELECT              |  |
| SELECT              |  |

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

\* 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)        |       |          |              |          |       |

|   |                  |      |      |
|---|------------------|------|------|
| <b>Resource Usage/Energy efficiency summary</b> | Lic No: W0275-01 | 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 |         |         |         |         |               |





|                      |  |         |          |      |      |
|----------------------|--|---------|----------|------|------|
| <b>WASTE SUMMARY</b> |  | Lic No: | W0275-01 | Year | 2016 |
|----------------------|--|---------|----------|------|------|

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

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

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

**Table 5 Capping-Landfill only**

| Area uncapped* | Area with temporary cap | Area with final cap to LD Standard m <sup>2</sup> 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(m <sup>3</sup> ) | 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 m <sup>3</sup> | Power generated (MW / KWh) | Used on-site or to national grid | Was surface emissions monitoring performed during the reporting year? | Comments |
|---|----------------------------|----------------------------------|---|----------|
|   |                            |                                  | SELECT  |          |