| Facility Information Summary | |
|---|---|
| AER Reporting Year | 2015 |
| Licence Register Number | W0074-03 |
| Name of site | Donohill Landfill |
| Site Location | Donohill, Co. Tipperary |
| NACE Code | 38.2.1 |
| Class/Classes of Activity | Class 1, 4, 5, 7 of the Third Schedule & Class 3, 4, 9, 13 of the Fourth Schedule of the Waste Management Acts |
| National Grid Reference (6E, 6 N) | 1895E, 1425N |
| A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year **and an overview of compliance with your licence** listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise. | Closed landfill for non-hazardous waste.<br>Civic Amenity site.<br>Any exceedance of licence limits are detailed in this report. |

**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.

| | |
|---|---|
| *Louise Ryan* | *31/05/2016* |
| Signature | Date |
| Facility manager<br>(or nominated, suitably qualified and experienced deputy) | |

| AIR-summary template | Lic No: | W0074-03 | Year | 2015 |
|---|---|---|---|---|

**Answer all questions and complete all tables where relevant**

| | | | Additional information |
|---|---|---|---|
| 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 | Yes | Flare stack emission |

## Periodic/Non-Continuous Monitoring

| | | | |
|---|---|---|---|
| 2 | Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below | No | |
| 3 | Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? Basic air monitoring checklist AGN2 | Yes | |

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

| Emission reference no: | Parameter/ Substance | Frequency of Monitoring | ELV in licence or any revision therof | 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Flare 1 | Nitrogen oxides (NOx/NO2) | annual | 150mg/m3 | No 30min mean can exceed the ELV | 35.4 | mg/Nm3 | yes | EN 14792:2005 | 38.915 | Release to air varience is due the volume of Landfill Gas combusted at the Flare was less in 2015 than in 2014 and the concentrations measured in 2015 differed from 2014. |
| Flare 1 | Carbon monoxide (CO) | annual | 50mg/m3 | No 30min mean can exceed the ELV | 5.39 | mg/Nm3 | yes | EN 15058:2004 | 5.925 | |
| Flare 1 | Total Organic Carbon (as C) | annual | 10mg/m3 | No 30min mean can exceed the ELV | 4.69 | mg/Nm3 | yes | OTH | 5.16 | |
| Flare 1 | volumetric flow | continuous | 500m3/hr | No 30min mean can exceed the ELV | 210 | Nm3/hour | yes | OTH | | |

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

| AIR-summary template | Lic No: | W0074-03 | Year | 2015 |
|---|---|---|---|---|

## Continuous Monitoring

| | | | |
|---|---|---|---|
| 4 | Does your site carry out continuous air emissions monitoring? | No | |
| | If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV) | | |
| 5 | Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below | SELECT | |
| 6 | Do you have a proactive service agreement for each piece of continuous monitoring equipment? | SELECT | |
| 7 | Did your site experience any abatement system bypasses? If yes please detail them in table A3 below | SELECT | |

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

| Emission reference no: | Parameter/ Substance | ELV in licence or any revision therof | 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

| AIR-summary template | Lic No: | W0074-03 | Year | 2015 |
|---|---|---|---|---|

## Solvent use and management on site

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

No

**Table A4: Solvent Management Plan Summary**
**Total VOC Emission limit value**

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

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

**Table A5: Solvent Mass Balance summary**

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

**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)** Lic No: W0074-03 Year 2015

| | | | Additional information |
|---|---|---|---|
| 1 | Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections | Yes | There is licenced emissions for controlled discharge of storm water to surface water, This is completed by monitoring the surface water lagoon SW5 prior to discharge. Results from this are given in Table W3. |
| 2 | Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections | Yes | |

**Table W1 Storm water monitoring**

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

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

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

| Location Reference | Date of inspection | Description of contamination | Source of contamination | Corrective action | Comments |
|---|---|---|---|---|---|
| SW1 | 15/05/2015 | Slight odour of slurry | offsite | Stream was checked again a few days later and no odour was found. Conductivity reading did not indicate contamination. | |
| SW2 | 15/05/2015 | Slight odour of slurry | offsite | Stream was checked again a few days later and no odour was found. Conductivity reading did not indicate contamination. | |
| SW3 | 15/05/2015 | Slight odour of slurry | offsite | Stream was checked again a few days later and no odour was found. Conductivity reading did not indicate contamination. | |
| SW4 | 15/05/2015 | Slight odour of slurry | offsite | Stream was checked again a few days later and no odour was found. Conductivity reading did not indicate contamination. | |

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

| | | | | | |
|---|---|---|---|---|---|
| 3 | Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below | | | No | Monitoring is carried out prior to discharge to ensure compliance with licence requirements. |
| 4 | Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box | External /Internal Lab Quality checklist | Assessment of results checklist | SELECT | |

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

| Emission reference no: | Emission released to | Parameter/ SubstanceNote 1 | Type of sample | Frequency of monitoring | Averaging period | ELV or trigger values in licence or any revision thereof[Note 2] | Licence Compliance criteria | Measured value | Unit of measurement | Compliant with licence | Method of analysis | Procedural reference source | Procedural reference standard number | Annual mass load (kg) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW5 | Water | Ammonia (as N) | discrete | Prior to discharge & quarterly | N/A | 0.2mg/l | All values < ELV | 0.18 | mg/L | yes | Spectrophotometry (Colorimetry) | Manufacturer method | Hach Nessler Method | 0.0994 | Average value of actual water discharged. No discharge takes place is licence conditions not met. |
| SW5 | Water | pH | discrete | weekly | N/A | >5.5 & <8.5 | All values < ELV | 6.86 | pH units | yes | pH Meter (Electrode) | Manufacturer method | | | Average value of actual water discharged. No discharge takes place is licence conditions not met. |

| AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) | | | | | | Lic No: | W0074-03 | | Year | 2015 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW5 | Water | Conductivity | discrete | weekly | N/A | 900 | All values < ELV | 415 | µS/cm @20oC | yes | Conductivity Meter (Electrode) | Manufacturer method | | | Average value of actual water discharged. No discharge takes place is licence conditions not met. |

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

**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)** Lic No: W0074-03 Year 2015

## Continuous monitoring

| | | Additional Information |
|---|---|---|
| 5 | Does your site carry out continuous emissions to water/sewer monitoring? | No |

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

| | | | |
|---|---|---|---|
| 6 | Did continuous monitoring equipment experience downtime? **If yes please record downtime in table W4 below** | SELECT | |
| 7 | Do you have a proactive service contract for each piece of continuous monitoring equipment on site? | SELECT | |
| 8 | Did abatement system bypass occur during the reporting year? **If yes please complete table W5 below** | SELECT | |

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

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

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

### Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

## Bund/Pipeline testing template

Lic No: W0074-03 Year 2015

Bund testing

dropdown menu click to see options

| | | | Additional information |
|---|---|---|---|
| 1 | 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 | No bund tests were carried out in 2015 as they were not due. |
| 2 | Please provide integrity testing frequency period | 3 years | |
| 3 | 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) | Yes | |
| 4 | How many bunds are on site? | 2 | Two lagoons |
| 5 | How many of these bunds have been tested within the required test schedule? | | Lagoons are tested every three years. Next test due in 2017. |
| 6 | How many mobile bunds are on site? | 1 | one bunded pallet |
| 7 | Are the mobile bunds included in the bund test schedule? | No | |
| 8 | How many of these mobile bunds have been tested within the required test schedule? | 0 | |
| 9 | How many sumps on site are included in the integrity test schedule? | 0 | |
| 10 | How many of these sumps are integrity tested within the test schedule? | 0 | |
| | **Please list any sump integrity failures in table B1** | | |
| 11 | Do all sumps and chambers have high level liquid alarms? | No | Leachate lagoon LC4 has a high level pump cut off |
| 12 | If yes to Q11 are these failsafe systems included in a maintenance and testing programme? | Yes | Leachate Lagoon Level sensor and cut off serviced annually |
| 13 | Is the Fire Water Retention Pond included in your integrity test programme? | N/A | |

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

| Bund/Containment structure ID | Type | Specify Other type | Product containment | Actual capacity | Capacity required* | Type of integrity test | Other test type | Test date | Integrity reports maintained on site? | Results of test | Integrity test failure explanation <50 words | Corrective action taken | Scheduled date for retest | Results of retest(if in current reporting year) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SELECT | | | | | SELECT | | | SELECT | SELECT | | SELECT | | |
| | SELECT | | | | | SELECT | | | SELECT | SELECT | | SELECT | | |

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

| | | | Commentary |
|---|---|---|---|
| 15 | Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance? | bunding and storage guidelines | SELECT |
| 16 | Are channels/transfer systems to remote containment systems tested? | | SELECT |
| 17 | Are channels/transfer systems compliant in both integrity and available volume? | | SELECT |

Pipeline/underground structure testing

| | | | |
|---|---|---|---|
| 1 | 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 withing the integrity test period as specified** | No | |
| 2 | Please provide integrity testing frequency period | SELECT | |

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

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

| Structure ID | Type system | Material of construction: | Does this structure have Secondary containment? | Type of secondary containment | Type integrity testing | Integrity reports maintained on site? | Results of test | Integrity test failure explanation <50 words | Corrective action taken | Scheduled date for retest | Results of retest(if in current reporting year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | SELECT | SELECT | SELECT | SELECT | SELECT | SELECT | SELECT | | | | SELECT |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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

| Groundwater/Soil monitoring template | Lic No: | W0074-03 | Year | 2015 |
|---|---|---|---|---|

| | | | Comments | |
|---|---|---|---|---|
| 1 | Are you required to carry out groundwater monitoring as part of your licence requirements? | yes | | Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER |
| 2 | Are you required to carry out soil monitoring as part of your licence requirements? | no | | |
| 3 | Do you extract groundwater for use on site? If yes please specify use in comment section | no | | |
| 4 | Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. Groundwater monitoring template | no | | The results indicate that leachate contamination of groundwater is not taking place. |
| 5 | Is the contamination related to operations at the facility (either current and/or historic) | N/A | | |
| 6 | Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site | N/A | An artesian gw head occurs locally, this helps to prevent leachate from contaminating gw | |
| 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 | | |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 20/04/2015 | GW12s | Ammonia | EPA Lab | Quarterly | 0.02 | 0.02 | mg/l | 0.3 | trigger | no |
| 07/07/2015 | GW12s | Conductivity | EPA Lab | Quarterly | 737 | 733 | µS/cm @20oC | 1000 | trigger | no |

.+ where average indicates arithmetic mean

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

**Table 2: Downgradient Groundwater monitoring results**

| Date of sampling | Sample location reference | Parameter/ Substance | Methodology | Monitoring frequency | Maximum Concentration | Average Concentration | unit | GTV's* | SELECT** | Upward trend in yearly average pollutant concentration over last 5 years of monitoring data |
|---|---|---|---|---|---|---|---|---|---|---|
| 03/03/2015 | GW13 | Ammonia | EPA Lab | Quarterly | 0.53 | 0.202 | mg/l | 0.3 | trigger | no |

| Groundwater/Soil monitoring template | | | | | Lic No: | W0074-03 | | Year | 2015 | |
|---|---|---|---|---|---|---|---|---|---|---|
| 03/03/2015 | GW13 | Conductivity | EPA Lab | Quarterly | 584 | 565 | µS/cm @20oC | 1000 | trigger | no |
| 03/03/2015 | GW11s | Ammonia | EPA Lab | Quarterly | 0.84 | 0.299 | mg/l | 0.3 | trigger | no |
| 03/03/2015 | GW11s | Conductivity | EPA Lab | Quarterly | 805 | 758 | µS/cm @20oC | 1000 | trigger | no |

*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)

Surface water EQS | Groundwater regulations GTV's | Drinking water (private supply) standards | Drinking water (public supply) standards | Interim Guideline Values (IGV)

| **Groundwater/Soil monitoring template** | Lic No: | W0074-03 | Year | 2015 |
|---|---|---|---|---|

**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

| | Environmental Liabilities template | Lic No: | W0074-03 | Year | 2015 |
|---|---|---|---|---|---|

Click here to access EPA guidance on Environmental Liabilities and Financial provision

| | | | Commentary |
|---|---|---|---|
| 1 | ELRA initial agreement status | Submitted and agreed by EPA | |
| 2 | ELRA review status | Review required and completed | |
| 3 | Amount of Financial Provision cover required as determined by the latest ELRA | €2,926,560 | |
| 4 | Financial Provision for ELRA status | Submitted and not agreed by EPA; | Insurance cover in place. |
| 5 | Financial Provision for ELRA - amount of cover | €20million | |
| 6 | Financial Provision for ELRA - type | Other please specify | Pollution / Contamination Insurance Cover for pollution / contamination which arises from sudden, identifiable, unintended and unexpected occurrence up to €20million. |
| 7 | Financial provision for ELRA expiry date | N/A | |
| 8 | Closure plan initial agreement status | Closure plan submitted and agreed by EPA | |
| 9 | Closure plan review status | Review required and completed | |
| 10 | Financial Provision for Closure status | Submitted and not agreed by EPA; | A loan of €1,254,140 which will cover the Capital Works involved in the Restoration of the site - i.e. final capping work. The rest of the costs which amount to €10,686,891 spread over the years 2015 to 2047 will be funded through the annual landfill aftercare budget of Tipperary County Council. |
| 11 | Financial Provision for Closure - amount of cover | €11,941,031 | |
| 12 | Financial Provision for Closure - type | Other please specify | An initial loan plus the provision of an annual budget. |
| 13 | Financial provision for Closure expiry date | N/A | |

## Environmental Management Programme/Continuous Improvement Programme template

Lic No: W0074-03 Year 2015

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

**Environmental Management Programme (EMP) report**

| Objective Category | Target | Status (% completed) | How target was progressed | Responsibility | Intermediate outcomes |
|---|---|---|---|---|---|
| Additional improvements | Review and upgrade leachate management & LFG systems | 70 | 1. Well LGE7 to be re-drilled - completed in 2015<br>2. Trigger levels for LGE7, LE13 and LE14 to be set and proposed to the EPA<br>3. Onsite leachate treatment to go ahead. Part 8 planning and EPA permission required.<br>4. Investigate options for installing level sensors connected to the SCADA system for the three wells LE12, LE3 and LE5 and two KOPs K11 and K3.<br>5. Upgrade of LFG system to increase gas extraction and minimise condensate build up completed in 2015. | Louise Ryan<br>Anne Peters | Increased compliance with licence conditions |
| Additional improvements | Obtain accreditation for combined EHS system (OHSAS18001 & ISO14001).<br>Maintain accreditation. | 100 | Environment Section of Tipperary Co Co obtained these standards for a combined EHS System in 2015 | Seamus O Brien | Improved Environmental Management Practices |
| Energy Efficiency/Utility conservation | Obtain accreditation for Energy management ISO50001 | 30 | Environment Section of Tipperary Co Co intends to obtain this standard in 2016. | Michael Woulfe | Improved Environmental Management Practices |

| Environmental Management Programme/Continuous Improvement Programme template | | | | Lic No: | W0074-03 | Year | 2015 |
|---|---|---|---|---|---|---|---|
| Additional improvements | Improve site security | ongoing | Part 8 planning followed by a tender process to be progressed in 2016 for a covered area for WEEE and scrap metal and replacement of chainlink fence with palisade.<br><br>Following this at a later date a hedge will be planted along the boundary fence where it is not already in place and the CCTV at the site and other security features at the site will be reviewed. | Louise Ryan<br>Anne Peters | Increased compliance with licence conditions | | |

| Noise monitoring summary report | Lic No: | W0074-03 | Year | 2015 |
|---|---|---|---|---|

| | | |
|---|---|---|
| 1 | Was noise monitoring a licence requirement for the AER period?<br>If yes please fill in table N1 noise summary below | Yes |
| 2 | Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6? (Noise Guidance note NG4) | Yes |
| 3 | Does your site have a noise reduction plan | No |
| 4 | When was the noise reduction plan last updated? | N/A |
| 5 | Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey? | No |

**Table N1: Noise monitoring summary**

| Date of monitoring | Time period | Noise location (on site) | Noise sensitive location -NSL (if applicable) | $LA_{eq}$ | $LA_{90}$ | $LA_{10}$ | $LA_{max}$ | Tonal or Impulsive noise* (Y/N) | If tonal /impulsive noise was identified was 5dB penalty applied? | Comments (ex. main noise sources on site, & extraneous noise ex. road traffic) | Is site compliant with noise limits (day/evening/night)? |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18/08/2015 | 12:09 | N1 | | 48.9 | 45.2 | | 67.8 | No | SELECT | Excavator working at the landfill, birds chirping. | Yes |
| 18/08/2015 | 12:41 | N2 | | 46.3 | 26.2 | | 72.9 | No | | Excavator working at the landfill, people talking, traffic. | Yes |
| 18/08/2015 | 11:35 | N3 | | 41.3 | 26.4 | | 72.4 | No | | Traffic in the distance, cattle nearby. | Yes |
| 18/08/2015 | 11:04 | N4 | | 46.8 | 35.1 | | 76.6 | No | | Traffic, people talking. | Yes |
| 18/08/2015 | 10:31 | | S1 | 64.6 | 28.8 | | 87.7 | No | | Traffic, dogs barking, birds chirping. | Yes |
| 18/08/2015 | 13:17 | | S2 | 56.5 | 32.1 | | 85.9 | No | | Traffic, a passing train, bird song. | Yes |
| | | | | | | | | | | | |

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

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

| ** please explain the reason for not taking action/resolution of noise issues? |
|---|
| The findings of the survey indicate that the noise sensitive locations were not adversely impacted by sources of noise at Donohill Landfill. |

| Resource Usage/Energy efficiency summary | Lic No: | W0074-03 | Year | 2015 |
|---|---|---|---|---|

| | | | Additional information |
|---|---|---|---|
| 1 | When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below | 26/06/2013 | |
| 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 | No | SEAI - Large Industry Energy Network (LIEN) |
| 3 | Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information | N/A | |

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) | 61.533 | 83.986 | N/A | N/A |
| Total Energy Generated (MWHrs) | N/A | N/A | N/A | N/A |
| Total Renewable Energy Generated (MWHrs) | N/A | N/A | N/A | N/A |
| Electricity Consumption (MWHrs) | 61.533 | 83.986 | N/A | N/A |
| Fossil Fuels Consumption: | N/A | N/A | N/A | N/A |
| Heavy Fuel Oil (m3) | N/A | N/A | N/A | N/A |
| Light Fuel Oil (m3) | N/A | N/A | N/A | N/A |
| Natural gas (m3) | N/A | N/A | N/A | N/A |
| Coal/Solid fuel (metric tonnes) | N/A | N/A | N/A | N/A |
| Peat (metric tonnes) | N/A | N/A | N/A | N/A |
| Renewable Biomass | N/A | N/A | N/A | N/A |
| Renewable energy generated on site | N/A | N/A | N/A | N/A |

* 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($m^3$yr): | Volume used i.e not discharged to environment e.g. released as steam m3/yr | Unaccounted for Water: |
| Groundwater | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Surface water | N/A | N/A | N/A | N/A | 562.5 | N/A | N/A |
| Public supply | 7.2 | 8 | N/A | N/A | N/A | N/A | N/A |
| Recycled water | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total | 7.2 | 8 | N/A | N/A | 562.5 | N/A | N/A |

* 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: W0074-03 Year 2015

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 |
|---|---|---|---|---|---|---|---|---|
| 26/06/2013 | Conduct full pumping / air compression energy assessment | | energy audit | | | Louise Ryan | | Open |
| 26/06/2013 | Specify premium efficiency IE3 motor for the flare unit in the case of future motor failure. | | energy audit | | | Louise Ryan | | Open |
| 26/06/2013 | Install energy efficient T5 fluorescent tubes in each office to redue lighting energy consumption by 39% and reduce costs. | | energy audit | | | Louise Ryan | | Open |
| 26/06/2013 | Install presence | | energy audit | | | Louise Ryan | | Open |
| 26/06/2013 | When the need for | | energy audit | | | Louise Ryan | | Open |
| 26/06/2013 | Print and display Fact | | energy audit | | | Louise Ryan | | Closed |

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 | | | | | |

**Complaints and Incidents summary template** Lic No: W0074-03 Year 2015

Complaints

| Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below | No | Additional information |
|---|---|---|

Table 1 Complaints summary

| Date | Category | Other type (please specify) | Brief description of complaint (Free txt <20 words) | Corrective action< 20 words | Resolution status | Resolution date | Further information |
|---|---|---|---|---|---|---|---|
| | SELECT | | | | SELECT | | |
| | SELECT | | | | SELECT | | |
| | SELECT | | | | SELECT | | |
| | SELECT | | | | SELECT | | |
| | SELECT | | | | SELECT | | |

| | |
|---|---|
| Total complaints open at start of reporting year | |
| Total new complaints received during reporting year | |
| Total complaints closed during reporting year | |
| Balance of complaints end of reporting year | |

Incidents

| Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below | Yes | Additional information: 79 incidents |
|---|---|---|

| *For information on how to report and what constitutes an incident | What is an incident |
|---|---|

Table 2 Incidents summary

| Date of occurrence | Incident nature | Location of occurrence | Incident category*please refer to guidance | Receptor | Cause of incident | Other cause(please specify) | Activity in progress at time of incident | Communication | Occurrence | Corrective action<20 words | Preventative action <20 words | Resolution status | Resolution date | Likelihood of reoccurence |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30/11/2015 | Trigger level reached | D1 | 1. Minor | Air | Other (add details) | Defect noted in intermediate capping. | Plant upgrade | EPA | Recurring | Capping was repaired | Capping was repaired | Complete | 11/12/2015 | Medium |
| 06/11/2015 | Flare not operating normally | Flare | 1. Minor | Air | Other (add details) | Flare can not run due to work to connect in new pipe work | Plant upgrade | EPA | New | Pipe connections completed. | N/A | Complete | 04/12/2015 | Low |
| 15/08/2015 | Flare not operating normally | Flare | 1. Minor | Air | Other (add details) | High O2 preventing flare from operating normally | Plant upgrade | EPA | New | Capping work onsite allowed air to enter gas system. Area opened was sealed back up. | N/A | Complete | 17/08/2015 | Low |
| 06/08/2015 | Trigger level reached | D1, D2. D3, D4, D5 | 1. Minor | Air | Other (add details) | Only clay intermediate cap in place at this time. | Normal activities | EPA | Recurring | Plastic intermediate cap installed | N/A | Complete | 11/12/2015 | Low |

| Complaints and Incidents summary template | | | | | Lic No: | W0074-03 | | Year | 2015 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2015 | Trigger level reached | Leachate wells - 75 incidents.<br><br>An incident was reported for each day and each well that there was a trigger level exceeded for the first part of the year, this was a new practice and was discontinued following EPA guidance. This explains the large volume of incidents compared to other years, when in fact the level of exceedance was very much in line with previous years. | 1. Minor | No Uncontrolled release | Operational controls | High rainfall, combined with restricted access to offsite WWTPs in wet weather, part of the site only covered with clay intermediate cap for most of 2015 allowing rainwater ingress. | Normal activities | EPA | Recurring | Plastic intermediate cap installed, access to another offsite WWTP secured. | Final capping of the site and CA upgrade improvements | Ongoing | | High |

| | |
|---|---|
| Total number of incidents current year | 79 |
| Total number of incidents previous year | 41 |
| % reduction/ increase | 93% increase |

| WASTE SUMMARY | Lic No: | W0074-03 | Year | 2015 |
|---|---|---|---|---|
| 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

| | | | Additional Information |
|---|---|---|---|
| 1 | Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is to be captured through PRTR reporting) If yes please enter details in table 1 below | No | CA Site Only.<br><br>Waste was accepted at the site and stored but was then removed offsite for treatment / recovery / disposal elsewhere.<br><br>Landfill at Donohill is closed. |
| 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)

| Licenced annual tonnage limit for your site (total tonnes/annum) | EWC code<br>European Waste Catalogue EWC codes | Source of waste accepted | Description of waste accepted **Please enter an accurate and detailed description - which applies to relevant EWC code** European Waste Catalogue EWC codes | Quantity of waste accepted in current reporting year (tonnes) | Quantity of waste accepted in previous reporting year (tonnes) | Reduction/ Increase over previous year +/ - % | Reason for reduction/ increase from previous reporting year | Packaging Content (%)- only applies if the waste has a packaging component | Disposal/Recovery or treatment operation carried out at your site and the description of this operation | Quantity of waste remaining on site at the end of reporting year (tonnes) | Comments - |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

## 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 | N/A | |
| 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 |
|---|---|---|---|---|
| Non-hazardous waste | 40,000 | 0 | 0 | Landfill closed |
| | | | | |
| | | | | |
| | | | | |

### Table 3 General information-Landfill only

**WASTE SUMMARY** Lic No: W0074-03 Year 2015

| Area ID | Date landfilling commenced | Date landfilling ceased | Currently landfilling | Private or Public Operated | Inert or non-hazardous | Predicted date to cease landfilling | Licence permits asbestos | Is there a separate cell for asbestos? | Accepted asbestos in reporting year | Total disposal area occupied by waste | Lined disposal area occupied by waste | Unlined area | Comments on liner type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | SELECT UNIT | SELECT UNIT | SELECT UNIT | |
| Donohill Landfill | Jan-89 | Apr-14 | No | Public | Non Hazardous | Apr-14 | No | No | No | 54090 | 23910 | 35600 | The lined & unlined areas share 5420m2. There is a "piggy back" liner on top of old waste, more recent waste was filled on top. |

**WASTE SUMMARY** Lic No: W0074-03 Year 2015

## Table 4 Environmental monitoring-landfill only

Landfill Manual-Monitoring Standards

| Was meterological monitoring in compliance with Landfill Directive (LD) standard in reporting year + | Was leachate monitored in compliance with LD standard in reporting year | Was Landfill Gas monitored in compliance with LD standard in reporting year | Was SW monitored in compliance with LD standard in reporting year | Have GW trigger levels been established | Were emission limit values agreed with the Agency (ELVs) | Was topography of the site surveyed in reporting year | Has the statement under S53(A)(5) of WMA been submitted in reporting year | Comments |
|---|---|---|---|---|---|---|---|---|
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | |

.+ 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 | | | | | |
| 0 | 13957 | 33660 | 0 | 33660 | drainage geocomposite, HDPE, soil | |

*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? | Yes |
| 10 | Is leachate released to surface water? If yes please complete leachate mass load information below | No |

| 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 |
|---|---|---|---|---|---|---|---|
| 19405.6 | 1431 | 7073 | 2717 | 5948 | N/A | | Mass load sent to WWTP |

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 |
|---|---|---|---|---|
| 1091333 | 0 | 0 | Yes | |

Environmental Protection Agency

Guidance to completing the PRTR workbook

# PRTR Returns Workbook

Version 1.1.19

| | |
|---|---|
| **REFERENCE YEAR** | 2015 |

**1. FACILITY IDENTIFICATION**

| | |
|---|---|
| Parent Company Name | Tipperary County Council |
| Facility Name | Donohill Landfill |
| PRTR Identification Number | W0074 |
| Licence Number | W0074-03 |

Classes of Activity

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

| | |
|---|---|
| Address 1 | Garryshane |
| Address 2 | Donohill |
| Address 3 | |
| Address 4 | |
| | |
| | Tipperary |
| Country | Ireland |
| Coordinates of Location | -7.32522 53.0734 |
| River Basin District | IEGBNISH |
| NACE Code | 3821 |
| Main Economic Activity | Treatment and disposal of non-hazardous waste |
| **AER Returns Contact Name** | Louise Ryan |
| **AER Returns Contact Email Address** | louisem.ryan@tipperarycoco.ie |
| **AER Returns Contact Position** | Landfill Manager |
| **AER Returns Contact Telephone Number** | 087-6598692 |
| **AER Returns Contact Mobile Phone Number** | 087-6598692 |
| **AER Returns Contact Fax Number** | n/a |
| **Production Volume** | 0.0 |
| **Production Volume Units** | 0 |
| **Number of Installations** | 1 |
| **Number of Operating Hours in Year** | 1730 |
| **Number of Employees** | 2 |
| **User Feedback/Comments** | Release to air varience is due to a number of factors. The volume of Landfill Gas combusted at the Flare was less in 2015 than in 2014. In addition the concentration of Carbon Monoxide measured in 2015, while still well within licence limits, was approximately 4 times what |
| **Web Address** | www.tipperarycoco.ie |

**2. PRTR CLASS ACTIVITIES**

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

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

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

**4. WASTE IMPORTED/ACCEPTED ONTO SITE** Guidance on waste imported/accepted onto site

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

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

**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

| RELEASES TO AIR | | | | | Please enter all quantities in this section in KGs | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| POLLUTANT | | METHOD | | | | | | QUANTITY | | |
| | | | Method Used | | Flare | Emissions from Waste Body | | | | |
| No. Annex II | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | Emission Point 2 | Emission Point 3 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| 02 | Carbon monoxide (CO) | M | EN 15058:2004 | EN15058:2006 NCIR by Horiba PG-250 | 5.925 | 0.0 | 0.0 | 5.925 | 0.0 | 0.0 |
| 01 | Methane (CH4) | C | OTH | Landgem Model & Onsite Flare Records | 0.0 | 327280.0 | 0.0 | 327280.0 | 0.0 | 0.0 |
| 08 | Nitrogen oxides (NOx/NO2) | M | EN 14792:2005 | EN 14792:2006 Chemiluminescence | 38.915 | 0.0 | 0.0 | 38.915 | 0.0 | 0.0 |
| **11** | **Sulphur oxides (SOx/SO2)** | M | ALT | TGN 21 NDIR Absorption | 38.585 | 0.0 | 0.0 | 38.585 | 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 AIR | | | | | Please enter all quantities in this section in KGs | | | |
|---|---|---|---|---|---|---|---|---|
| POLLUTANT | | METHOD | | | QUANTITY | | | |
| | | | Method Used | | | | | |
| 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 AIR | | | | | Please enter all quantities in this section in KGs | | | |
|---|---|---|---|---|---|---|---|---|
| POLLUTANT | | METHOD | | | QUANTITY | | | |
| | | | Method Used | | | | | |
| 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

## Additional Data Requested from Landfill operators

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

**Landfill:** Donohill Landfill

| **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) | 515898.0 | C | OTH | Landgem | N/A | |
| Methane flared | 188618.0 | C | OTH | Landgem | 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) | 327280.0 | C | OTH | Landgem | N/A | |

## 4.2 RELEASES TO WATERS

Link to previous years emissions data



### 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

| RELEASES TO WATERS | | | | | Please enter all quantities in this section in KGs | | |
|---|---|---|---|---|---|---|---|
| POLLUTANT | | | | | | | QUANTITY |
| | | | Method Used | | | | |
| 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 PRTR POLLUTANTS

| RELEASES TO WATERS | | | | | Please enter all quantities in this section in KGs | | |
|---|---|---|---|---|---|---|---|
| POLLUTANT | | | | | | | QUANTITY |
| | | | Method Used | | | | |
| 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 C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

| RELEASES TO WATERS | | | | | Please enter all quantities in this section in KGs | | |
|---|---|---|---|---|---|---|---|
| POLLUTANT | | | | | | | QUANTITY |
| | | | Method Used | | | | |
| 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

30/05/2016 13:33

Reporting as this only con

| [redacted] |
| --- |
| |
| F (Fugitive) KG/Year |
| 0.0 |

| [redacted] |
| --- |
| |
| F (Fugitive) KG/Year |
| 0.0 |

| [redacted] |
| --- |
| |
| F (Fugitive) KG/Year |
| 0.0 |

## 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 | | | |
| | | | Method Used | | | | | |
| 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 | | | |
| | | | Method Used | | | | | |
| 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



### SECTION A : PRTR POLLUTANTS

| RELEASES TO LAND | | | | | Please enter all quantities in this section in KGs | | |
|---|---|---|---|---|---|---|---|
| POLLUTANT | | METHOD | | | QUANTITY | | |
| | | | Method Used | | | | |
| 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)

| RELEASES TO LAND | | | | | Please enter all quantities in this section in KGs | | |
|---|---|---|---|---|---|---|---|
| POLLUTANT | | METHOD | | | QUANTITY | | |
| | | | Method Used | | | | |
| 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



**Please enter all quantities on this sheet in Tonnes**

| Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste | Waste Treatment Operation | Method Used | | Location of Treatment | Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer | Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer | Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY) | Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | M/C/E | Method Used | | | | | |
| To Other Countries | 08 01 11 | Yes | 3.2 | waste paint and varnish containing organic solvents or other dangerous substances | R3 | M | Weighed | Abroad | Enva,W0184-01 | Enva,Cloninam Ind Est,Portlaoise,Co Laoise,Ireland | Geocycle,38.152/BP,Geocycle,Feneffe,.,.,Belgium | Geocycle,Feneffe,.,.,Belgium |
| Within the Country | 13 02 04 | Yes | 0.38 | mineral-based chlorinated engine, gear and lubricating oils | R3 | M | Weighed | Offsite in Ireland | Enva,W0184-01 | Enva,Cloninam Ind Est,Portlaoise,Co Laoise,Ireland | .,.,.,.,.,.,Ireland | .,.,.,.,Ireland |
| Within the Country | 15 01 04 | No | 1.66 | metallic packaging | R4 | M | Weighed | Offsite in Ireland | Rehab Recycling,08/04 (Reg no 635) | Rehab Recycling,Rehab Building,Kylemore Rd. Ballyfermot,Dublin 10,ireland | | |
| Within the Country | 15 01 07 | No | 7.3 | glass packaging | R5 | M | Weighed | Offsite in Ireland | Rehab Recycling,08/04 (Reg no 635) | Rehab Recycling,Rehab Building,Kylemore Rd. Ballyfermot,Dublin 10,ireland | | |
| Within the Country | 19 07 03 | No | 10930.14 | landfill leachate other than those mentioned in 19 07 02 | D8 | M | Weighed | Offsite in Ireland | Irish Water,D0146-01 | Tipperary WWTP,Bansha Rd,Tipperary town,Co. Tipperary,Ireland | | |
| Within the Country | 19 07 03 | No | 5436.16 | landfill leachate other than those mentioned in 19 07 02 | D8 | M | Weighed | Offsite in Ireland | Irish Water,D0171-01 | Cashel WWTP,Tipperary Rd,Cashel ,Co. Tipperary,Ireland | | |
| Within the Country | 19 07 03 | No | 2399.32 | landfill leachate other than those mentioned in 19 07 02 | D8 | M | Weighed | Offsite in Ireland | Irish Water,D0035-01 | Clonmel WWTP,Waterford Rd,Clonmel ,Co. Tipperary,Ireland | | |
| Within the Country | 20 01 01 | No | 29.04 | paper and cardboard | R3 | M | Weighed | Offsite in Ireland | Greenstar,W0082-02 | Greenstar,Ballykeefe Townland,Dock Road,Limerick,Ireland | | |
| To Other Countries | 20 01 11 | No | 1.34 | textiles | R5 | M | Weighed | Abroad | Cookstown textiles,Charity | Cookstown textiles,36 Maheralane Rd,Randalstown,Co Antrim BT41 2NT,United Kingdom | | |
| Within the Country | 20 01 36 | No | 49.88 | discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35 | R5 | M | Weighed | Offsite in Ireland | KMK,W0113-04 | KMK,Cappincur Ind Est,Tullamore,Co Offaly,Ireland | | |
| Within the Country | 20 01 38 | No | 34.56 | wood other than that mentioned in 20 01 37 | R3 | M | Weighed | Offsite in Ireland | Wallers Lot,W0200-01 | Cashel,Co. Tipperary,.,.,Ireland | | |
| Within the Country | 20 01 40 | No | 15.52 | metals | R4 | M | Weighed | Offsite in Ireland | Molloy Metals,WP/08/14(b) | Molloy Metals,Tomgarrow,Ballycarney,Enniscothy Co Wexford,Ireland | | |
| Within the Country | 20 03 01 | No | 0.0 | mixed municipal waste | D5 | M | Weighed | Onsite of generatic | Donohill Landfill,W0074-03 | Donohill Landfill,Garyshane,Donohill ,Co Tipperary,Ireland | | |
| Within the Country | 20 03 01 | No | 45.92 | mixed municipal waste | R3 | M | Weighed | Offsite in Ireland | Greenstar,W0082-02 | Greenstar,Ballykeefe Townland,Dock Road,Limerick,Ireland | | |
| Within the Country | 20 03 01 | No | 191.76 | mixed municipal waste | D5 | M | Weighed | Offsite in Ireland | Wallers Lot,W0200-01 | Cashel,Co. Tipperary,.,.,Ireland | | |
| Within the Country | 19 07 03 | No | 1017.38 | landfill leachate other than those mentioned in 19 07 02 | D8 | M | Weighed | Offsite in Ireland | Irish Water,D0013-01 | Bunlicky WWTP,Limerick City and Environs,.,.,Ireland | | |

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

Link to previous years waste data
Link to previous years waste summary data & percentage change
Link to Waste Guidance