Facility Information Summary

| | |
|---|---|
| Licence Register Number | W0021-02 |
| Name of site | Derrinuera Landfill Site |
| Site Location | Newport, County Mayo. |
| NACE Code | |
| Class of Activity | Class 5 & Class 2,3,&4. |
| RBME risk category | A3 |
| National Grid Reference (6E, 6 N) | 293525 E, 104250 No |

A brief description of the activities/process at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance improvements which were measured during the reporting year;

Continued deposition of waste into Cell 2 and operation of the civic amenity site.

**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.

| | |
|---|---|
| _____Killian Farrell_____ | _____5/3/12_____ |
| Signature | Date |
| Group/Facility manager | |
| (or nominated, suitably qualified and experienced deputy) | |

## AER summary template-AIR emissions

| | | | Additional information |
|---|---|---|---|
| 1 | Does your site have licensed air emissions? If yes please complete table 1, 2 and 3 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 5 and 6) you <u>only</u> need to complete table 1 fugitive emissions on site below | No | |

### Table 1 Fugitive emissions

| Parameter /Substance | Annual fugitive emission (kg/annum) | Quantificaton method M/C/E |
|---|---|---|
| Methane (CH4) | 0 | C |
| Carbon dioxide (CO2) | 0 | C |

### 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 Table 2 below | | SELECT | |
| 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 | SELECT | |

### Table 2: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)

| Emission reference no: | Parameter/ Substance | Date 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) | % change in mass load from previous year +/- | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | SELECT | | | SELECT | | SELECT | SELECT | SELECT | | | |
| | SELECT | | | SELECT | | SELECT | SELECT | SELECT | | | |

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

## Continuous Monitoring

| | | | |
|---|---|---|---|
| 4 | Does your site carry out continuous air emissions monitoring? | SELECT | |
| | If yes please review your continuous monitoring data and report the required fields below in Table 3 and compare it to its relevant Emission Limit Value (ELV) | | |
| 5 | Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 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 4 below | SELECT | |

**Table 3: 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) | % compliance current reporting year | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| | SELECT | | | SELECT | SELECT | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

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

**Table 4: Abatement system bypass reporting table** Bypass protocol

| Date* | Duration** (hours) | Location | Reason for bypass | 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

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out table 5

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

| **Table 5: 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 6: Solvent Mass Balance summary**

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

## AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)

| | | | Additional information |
|---|---|---|---|
| 1 | Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table 3 and 4 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table 1 and /table 2 below for ambient monitoring and visual inspections | No | |
| 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 2 below summarising only any evidence of contamination noted during visual inspections | Yes | No evidence of contamination visible, trout seen at downstream monitoring point SW2 on a number of occassions. |

### Table 1 Ambient 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| SW1 | upstream | SELECT | **BOD mg/l** | 07/01/2011 | none set | SELECT | <1 | as stated in licenced parameter column | N/A | |
| SW1 | upstream | | **Suspended Solids mg/l** | 07/01/2011 | none set | | <2 | | N/A | |
| SW1 | upstream | | **pH** | 07/01/2011 | none set | | 5.1 | | N/A | |
| SW1 | upstream | | **Conductivity @20C uS/cm** | 07/01/2011 | none set | | 92.1 | | N/A | |
| SW1 | upstream | | **Ammonia as NH3-N mg/l** | 07/01/2011 | none set | | 0.039 | | N/A | |
| SW1 | upstream | | **Total Phosphorus as P mg/l** | 07/01/2011 | none set | | <0.05 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (%)** | 07/01/2011 | none set | | 70.2 | | N/A | |
| SW1 | upstream | | **Orthophosphate as PO4-P mg/l** | 07/01/2011 | none set | | <0.01 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (mg/l)** | 07/01/2011 | none set | | 8.6 | | N/A | |
| SW1 | upstream | | | | none set | | | | N/A | |
| SW1 | upstream | | **BOD mg/l** | 04/02/2011 | none set | | <1 | | N/A | |
| SW1 | upstream | | **Suspended Solids mg/l** | 04/02/2011 | none set | | <2 | | N/A | |
| SW1 | upstream | | **pH** | 04/02/2011 | none set | | 4.4 | | N/A | |
| SW1 | upstream | | **Conductivity @20C uS/cm** | 04/02/2011 | none set | | 103.1 | | N/A | |
| SW1 | upstream | | **Ammonia as NH3-N mg/l** | 04/02/2011 | none set | | <0.005 | | N/A | |
| SW1 | upstream | | **Total Phosphorus as P mg/l** | 04/02/2011 | none set | | 0.05 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (%)** | 04/02/2011 | none set | | 80 | | N/A | |
| SW1 | upstream | | **Orthophosphate as PO4-P mg/l** | 04/02/2011 | none set | | <0.01 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (mg/l)** | 04/02/2011 | none set | | 7.51 | | N/A | |
| SW1 | upstream | | | | none set | | | | N/A | |
| SW1 | upstream | | **BOD mg/l** | 04/03/2011 | none set | | <1 | | N/A | |
| SW1 | upstream | | **Suspended Solids mg/l** | 04/03/2011 | none set | | <2 | | N/A | |
| SW1 | upstream | | **pH** | 04/03/2011 | none set | | 4.7 | | N/A | |
| SW1 | upstream | | **Conductivity @20C uS/cm** | 04/03/2011 | none set | | 84.2 | | N/A | |
| SW1 | upstream | | **Ammonia as NH3-N mg/l** | 04/03/2011 | none set | | <0.005 | | N/A | |
| SW1 | upstream | | **Total Phosphorus as P mg/l** | 04/03/2011 | none set | | <0.05 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (%)** | 04/03/2011 | none set | | 42.2 | | N/A | |
| SW1 | upstream | | **Orthophosphate as PO4-P mg/l** | 04/03/2011 | none set | | 0.021 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (mg/l)** | 04/03/2011 | none set | | 4.95 | | N/A | |
| SW1 | upstream | | **COD mg/l** | 04/03/2011 | none set | | 70 | | N/A | |
| SW1 | upstream | | **Sodium, total mg/l** | 04/03/2011 | none set | | 10 | | N/A | |
| SW1 | upstream | | **Chloride mg/l** | 04/03/2011 | none set | | 18.32 | | N/A | |
| SW1 | upstream | | **Potassium, total mg/l** | 04/03/2011 | none set | | 1 | | N/A | |
| SW1 | upstream | | | | none set | | | | N/A | |
| SW1 | upstream | | **BOD mg/l** | 01/04/2011 | none set | | <1 | | N/A | |
| SW1 | upstream | | **Suspended Solids mg/l** | 01/04/2011 | none set | | <2 | | N/A | |
| SW1 | upstream | | **pH** | 01/04/2011 | none set | | 4.1 | | N/A | |
| SW1 | upstream | | **Conductivity @20C uS/cm** | 01/04/2011 | none set | | 91.0 | | N/A | |
| SW1 | upstream | | **Ammonia as NH3-N mg/l** | 01/04/2011 | none set | | 0.026 | | N/A | |
| SW1 | upstream | | **Total Phosphorus as P mg/l** | 01/04/2011 | none set | | <0.05 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (%)** | 01/04/2011 | none set | | 44 @ lab | | N/A | |
| SW1 | upstream | | **Orthophosphate as PO4-P mg/l** | 01/04/2011 | none set | | <0.01 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (mg/l)** | 01/04/2011 | none set | | 4.7 @ lab | | N/A | |
| SW1 | upstream | | | | none set | | | | N/A | |
| SW1 | upstream | | **BOD mg/l** | 06/05/2011 | none set | | <1 | | N/A | |
| SW1 | upstream | | **Suspended Solids mg/l** | 06/05/2011 | none set | | <2 | | N/A | |
| SW1 | upstream | | **pH** | 06/05/2011 | none set | | 4.3 | | N/A | |
| SW1 | upstream | | **Conductivity @20C uS/cm** | 06/05/2011 | none set | | 78.3 | | N/A | |
| SW1 | upstream | | **Ammonia as NH3-N mg/l** | 06/05/2011 | none set | | 0.023 | | N/A | |
| SW1 | upstream | | **Total Phosphorus as P mg/l** | 06/05/2011 | none set | | <0.05 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (%)** | 06/05/2011 | none set | | 75.6 @ lab | | N/A | |
| SW1 | upstream | | **Orthophosphate as PO4-P mg/l** | 06/05/2011 | none set | | <0.01 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (mg/l)** | 06/05/2011 | none set | | 7.6 @ lab | | N/A | |
| SW1 | upstream | | | | none set | | | | N/A | |
| SW1 | upstream | | **BOD mg/l** | 10/06/2011 | none set | | <1 | | N/A | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SW1 | upstream | | **Suspended Solids mg/l** | 10/06/2011 | none set | | <2 | | N/A | |
| SW1 | upstream | | **pH** | 10/06/2011 | none set | | 4.5 | | N/A | |
| SW1 | upstream | | **Conductivity @20C uS/cm** | 10/06/2011 | none set | | 89.7 | | N/A | |
| SW1 | upstream | | **Ammonia as NH3-N mg/l** | 10/06/2011 | none set | | 0.921 | | N/A | |
| SW1 | upstream | | **Total Phosphorus as P mg/l** | 10/06/2011 | none set | | <0.05 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (%)** | 10/06/2011 | none set | | 47.6 @ lab | | N/A | |
| SW1 | upstream | | **Orthophosphate as PO4-P mg/l** | 10/06/2011 | none set | | <0.01 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (mg/l)** | 10/06/2011 | none set | | 4.78 @ lab | | N/A | |
| SW1 | upstream | | **COD mg/l** | 10/06/2011 | none set | | 61 | | N/A | |
| SW1 | upstream | | **Sodium, total mg/l** | 10/06/2011 | none set | | 7 | | N/A | |
| SW1 | upstream | | **Chloride mg/l** | 10/06/2011 | none set | | 23.62 | | N/A | |
| SW1 | upstream | | **Potassium, total mg/l** | 10/06/2011 | none set | | 0.5 | | N/A | |
| SW1 | upstream | | **Magnesium, total mg/l** | 10/06/2011 | none set | | 1 | | N/A | |
| SW1 | upstream | | **Sulphate mg/l** | 10/06/2011 | none set | | <5 | | N/A | |
| SW1 | upstream | | **Manganese, total ug/l** | 10/06/2011 | none set | | 14 | | N/A | |
| SW1 | upstream | | **Zinc, total ug/l** | 10/06/2011 | none set | | 11 | | N/A | |
| SW1 | upstream | | **Chromium, total ug/l** | 10/06/2011 | none set | | <0.5 | | N/A | |
| SW1 | upstream | | **Calcium, total mg/l** | 10/06/2011 | none set | | <3 | | N/A | |
| SW1 | upstream | | **Nickel, total ug/l** | 10/06/2011 | none set | | 1 | | N/A | |
| SW1 | upstream | | **Lead, total ug/l** | 10/06/2011 | none set | | 1 | | N/A | |
| SW1 | upstream | | **Cadmium, total ug/l** | 10/06/2011 | none set | | <0.5 | | N/A | |
| SW1 | upstream | | **Mercury ug/l** | 10/06/2011 | none set | | <0.05 | | N/A | |
| SW1 | upstream | | **Alkalinity, total mg/l** | 10/06/2011 | none set | | 14 | | N/A | |
| SW1 | upstream | | **TON as No mg/l** | 10/06/2011 | none set | | <0.1 | | N/A | |
| SW1 | upstream | | **Copper, total ug/l** | 10/06/2011 | none set | | 2 | | N/A | |
| SW1 | upstream | | **Iron, total ug/l** | 10/06/2011 | none set | | 787 | | N/A | |
| SW1 | upstream | | | | none set | | | | N/A | |
| SW1 | upstream | | **BOD mg/l** | 08/07/2011 | none set | | <1 | | N/A | |
| SW1 | upstream | | **Suspended Solids mg/l** | 08/07/2011 | none set | | <2 | | N/A | |
| SW1 | upstream | | **pH** | 08/07/2011 | none set | | 4.6 | | N/A | |
| SW1 | upstream | | **Conductivity @20C uS/cm** | 08/07/2011 | none set | | 81.5 | | N/A | |
| SW1 | upstream | | **Ammonia as NH3-N mg/l** | 08/07/2011 | none set | | 0.015 | | N/A | |
| SW1 | upstream | | **Total Phosphorus as P mg/l** | 08/07/2011 | none set | | 0.05 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (%)** | 08/07/2011 | none set | | 71.7 @ lab | | N/A | |
| SW1 | upstream | | **Orthophosphate as PO4-P mg/l** | 08/07/2011 | none set | | <0.01 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (mg/l)** | 08/07/2011 | none set | | 6.60 @ lab | | N/A | |
| SW1 | upstream | | | | none set | | | | N/A | |
| SW1 | upstream | | **BOD mg/l** | 05/08/2011 | none set | | <1 | | N/A | |
| SW1 | upstream | | **Suspended Solids mg/l** | 05/08/2011 | none set | | 5 | | N/A | |
| SW1 | upstream | | **pH** | 05/08/2011 | none set | | 5.3 | | N/A | |
| SW1 | upstream | | **Conductivity @20C uS/cm** | 05/08/2011 | none set | | 84 | | N/A | |
| SW1 | upstream | | **Ammonia as NH3-N mg/l** | 05/08/2011 | none set | | 0.153 | | N/A | |
| SW1 | upstream | | **Total Phosphorus as P mg/l** | 05/08/2011 | none set | | 0.06 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (%)** | 05/08/2011 | none set | | 78.6 @ lab | | N/A | |
| SW1 | upstream | | **Orthophosphate as PO4-P mg/l** | 05/08/2011 | none set | | <0.01 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (mg/l)** | 05/08/2011 | none set | | 7.8 @ lab | | N/A | |
| SW1 | upstream | | | | none set | | | | N/A | |
| SW1 | upstream | | **BOD mg/l** | 07/09/2011 | none set | | <1 | | N/A | |
| SW1 | upstream | | **Suspended Solids mg/l** | 07/09/2011 | none set | | 3 | | N/A | |
| SW1 | upstream | | **pH** | 07/09/2011 | none set | | 5.4 | | N/A | |
| SW1 | upstream | | **Conductivity @20C uS/cm** | 07/09/2011 | none set | | 75.9 | | N/A | |
| SW1 | upstream | | **Ammonia as NH3-N mg/l** | 07/09/2011 | none set | | 0.019 | | N/A | |
| SW1 | upstream | | **Total Phosphorus as P mg/l** | 07/09/2011 | none set | | <0.05 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (%)** | 07/09/2011 | none set | | 60.8 @ lab | | N/A | |
| SW1 | upstream | | **Orthophosphate as PO4-P mg/l** | 07/09/2011 | none set | | 0.022 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (mg/l)** | 07/09/2011 | none set | | 5.2 @ lab | | N/A | |
| SW1 | upstream | | **COD mg/l** | 07/09/2011 | none set | | 75 | | N/A | |
| SW1 | upstream | | **Sodium, total mg/l** | 07/09/2011 | none set | | 8 | | N/A | |
| SW1 | upstream | | **Chloride mg/l** | 07/09/2011 | none set | | 16.7 | | N/A | |
| SW1 | upstream | | **Potassium, total mg/l** | 07/09/2011 | none set | | <0.5 | | N/A | |
| SW1 | upstream | | | | none set | | | | N/A | |
| SW1 | upstream | | **BOD mg/l** | 07/10/2011 | none set | | <1 | | N/A | |
| SW1 | upstream | | **Suspended Solids mg/l** | 07/10/2011 | none set | | 3 | | N/A | |
| SW1 | upstream | | **pH** | 07/10/2011 | none set | | 4.6 | | N/A | |
| SW1 | upstream | | **Conductivity @20C uS/cm** | 07/10/2011 | none set | | 100 | | N/A | |
| SW1 | upstream | | **Ammonia as NH3-N mg/l** | 07/10/2011 | none set | | <0.005 | | N/A | |
| SW1 | upstream | | **Total Phosphorus as P mg/l** | 07/10/2011 | none set | | 0.06 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (%)** | 07/10/2011 | none set | | 85.6 @ lab | | N/A | |
| SW1 | upstream | | **Orthophosphate as PO4-P mg/l** | 07/10/2011 | none set | | <0.01 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (mg/l)** | 07/10/2011 | none set | | 8.6 @ lab | | N/A | |
| SW1 | upstream | | | | none set | | | | N/A | |
| SW1 | upstream | | **BOD mg/l** | 09/11/2011 | none set | | <1 | | N/A | |
| SW1 | upstream | | **Suspended Solids mg/l** | 09/11/2011 | none set | | 7 | | N/A | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SW1 | upstream | | **pH** | 09/11/2011 | none set | | 4.3 | | N/A | |
| SW1 | upstream | | **Conductivity @20C uS/cm** | 09/11/2011 | none set | | 93.6 | | N/A | |
| SW1 | upstream | | **Ammonia as NH3-N mg/l** | 09/11/2011 | none set | | 0.044 | | N/A | |
| SW1 | upstream | | **Total Phosphorus as P mg/l** | 09/11/2011 | none set | | <0.05 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (%)** | 09/11/2011 | none set | | 88.3 @ lab | | N/A | |
| SW1 | upstream | | **Orthophosphate as PO4-P mg/l** | 09/11/2011 | none set | | <0.01 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (mg/l)** | 09/11/2011 | none set | | 8.81 @ lab | | N/A | |
| SW1 | upstream | | **COD mg/l** | 09/11/2011 | none set | | 87 | | N/A | |
| SW1 | upstream | | **Sodium, total mg/l** | 09/11/2011 | none set | | 9 | | N/A | |
| SW1 | upstream | | **Chloride mg/l** | 09/11/2011 | none set | | 20.8 | | N/A | |
| SW1 | upstream | | **Potassium, total mg/l** | 09/11/2011 | none set | | 0.6 | | N/A | |
| SW1 | upstream | | | | none set | | | | N/A | |
| SW1 | upstream | | **BOD mg/l** | 02/12/2011 | none set | | <1 | | N/A | |
| SW1 | upstream | | **Suspended Solids mg/l** | 02/12/2011 | none set | | <2 | | N/A | |
| SW1 | upstream | | **pH** | 02/12/2011 | none set | | 5.1 | | N/A | |
| SW1 | upstream | | **Conductivity @20C uS/cm** | 02/12/2011 | none set | | 88 | | N/A | |
| SW1 | upstream | | **Ammonia as NH3-N mg/l** | 02/12/2011 | none set | | 0.057 | | N/A | |
| SW1 | upstream | | **Total Phosphorus as P mg/l** | 02/12/2011 | none set | | 0.08 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (%)** | 02/12/2011 | none set | | 67.9 @ lab | | N/A | |
| SW1 | upstream | | **Orthophosphate as PO4-P mg/l** | 02/12/2011 | none set | | <0.01 | | N/A | |
| SW1 | upstream | | **Dissolved Oxygen (mg/l)** | 02/12/2011 | none set | | 6.71 @ lab | | N/A | |
| | | | | | | | | | N/A | |
| SW2 | downstream | | **BOD mg/l** | 07/01/2011 | none set | | <1 | | N/A | |
| SW2 | downstream | | **Suspended Solids mg/l** | 07/01/2011 | none set | | <2 | | N/A | |
| SW2 | downstream | | **pH** | 07/01/2011 | none set | | 6.4 | | N/A | |
| SW2 | downstream | | **Conductivity @20C uS/cm** | 07/01/2011 | none set | | 222 | | N/A | |
| SW2 | downstream | | **Ammonia as NH3-N mg/l** | 07/01/2011 | none set | | 0.511 | | N/A | |
| SW2 | downstream | | **Total Phosphorus as P mg/l** | 07/01/2011 | none set | | <0.05 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (%)** | 07/01/2011 | none set | | 70.7 | | N/A | |
| SW2 | downstream | | **Orthophosphate as PO4-P mg/l** | 07/01/2011 | none set | | <0.01 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (mg/l)** | 07/01/2011 | none set | | 9.2 | | N/A | |
| SW2 | downstream | | | | none set | | | | N/A | |
| SW2 | downstream | | **BOD mg/l** | 04/02/2011 | none set | | <1 | | N/A | |
| SW2 | downstream | | **Suspended Solids mg/l** | 04/02/2011 | none set | | 10 | | N/A | |
| SW2 | downstream | | **pH** | 04/02/2011 | none set | | 6.7 | | N/A | |
| SW2 | downstream | | **Conductivity @20C uS/cm** | 04/02/2011 | none set | | 183 | | N/A | |
| SW2 | downstream | | **Ammonia as NH3-N mg/l** | 04/02/2011 | none set | | 0.020 | | N/A | |
| SW2 | downstream | | **Total Phosphorus as P mg/l** | 04/02/2011 | none set | | 0.06 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (%)** | 04/02/2011 | none set | | 88.5 | | N/A | |
| SW2 | downstream | | **Orthophosphate as PO4-P mg/l** | 04/02/2011 | none set | | <0.01 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (mg/l)** | 04/02/2011 | none set | | 8.46 | | N/A | |
| SW2 | downstream | | | | none set | | | | N/A | |
| SW2 | downstream | | **BOD mg/l** | 04/03/2011 | none set | | <1 | | N/A | |
| SW2 | downstream | | **Suspended Solids mg/l** | 04/03/2011 | none set | | 5 | | N/A | |
| SW2 | downstream | | **pH** | 04/03/2011 | none set | | 6.9 | | N/A | |
| SW2 | downstream | | **Conductivity @20C uS/cm** | 04/03/2011 | none set | | 224 | | N/A | |
| SW2 | downstream | | **Ammonia as NH3-N mg/l** | 04/03/2011 | none set | | 0.592 | | N/A | |
| SW2 | downstream | | **Total Phosphorus as P mg/l** | 04/03/2011 | none set | | <0.05 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (%)** | 04/03/2011 | none set | | 60.2 | | N/A | |
| SW2 | downstream | | **Orthophosphate as PO4-P mg/l** | 04/03/2011 | none set | | <0.01 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (mg/l)** | 04/03/2011 | none set | | 6.89 | | N/A | |
| SW2 | downstream | | **COD mg/l** | 04/03/2011 | none set | | 39 | | N/A | |
| SW2 | downstream | | **Sodium, total mg/l** | 04/03/2011 | none set | | 15 | | N/A | |
| SW2 | downstream | | **Chloride mg/l** | 04/03/2011 | none set | | 25.74 | | N/A | |
| SW2 | downstream | | **Potassium, total mg/l** | 04/03/2011 | none set | | 2 | | N/A | |
| SW2 | downstream | | | | none set | | | | N/A | |
| SW2 | downstream | | **BOD mg/l** | 01/04/2011 | none set | | <1 | | N/A | |
| SW2 | downstream | | **Suspended Solids mg/l** | 01/04/2011 | none set | | <2 | | N/A | |
| SW2 | downstream | | **pH** | 01/04/2011 | none set | | 7.1 | | N/A | |
| SW2 | downstream | | **Conductivity @20C uS/cm** | 01/04/2011 | none set | | 138.6 | | N/A | |
| SW2 | downstream | | **Ammonia as NH3-N mg/l** | 01/04/2011 | none set | | 0.028 | | N/A | |
| SW2 | downstream | | **Total Phosphorus as P mg/l** | 01/04/2011 | none set | | <0.05 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (%)** | 01/04/2011 | none set | | 81.2 @ lab | | N/A | |
| SW2 | downstream | | **Orthophosphate as PO4-P mg/l** | 01/04/2011 | none set | | <0.01 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (mg/l)** | 01/04/2011 | none set | | 8.56 @ lab | | N/A | |
| SW2 | downstream | | | | none set | | | | N/A | |
| SW2 | downstream | | **BOD mg/l** | 06/05/2011 | none set | | <1 | | N/A | |
| SW2 | downstream | | **Suspended Solids mg/l** | 06/05/2011 | none set | | <2 | | N/A | |
| SW2 | downstream | | **pH** | 06/05/2011 | none set | | 6.6 | | N/A | |
| SW2 | downstream | | **Conductivity @20C uS/cm** | 06/05/2011 | none set | | 251 | | N/A | |
| SW2 | downstream | | **Ammonia as NH3-N mg/l** | 06/05/2011 | none set | | 0.604 | | N/A | |
| SW2 | downstream | | **Total Phosphorus as P mg/l** | 06/05/2011 | none set | | <0.05 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (%)** | 06/05/2011 | none set | | 81.6 @ lab | | N/A | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SW2 | downstream | | **Orthophosphate as PO4-P mg/l** | 06/05/2011 | none set | | <0.01 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (mg/l)** | 06/05/2011 | none set | | 8.0 @ lab | | N/A | |
| SW2 | downstream | | | | none set | | | | N/A | |
| SW2 | downstream | | **BOD mg/l** | 10/06/2011 | none set | | <1 | | N/A | |
| SW2 | downstream | | **Suspended Solids mg/l** | 10/06/2011 | none set | | <2 | | N/A | |
| SW2 | downstream | | **pH** | 10/06/2011 | none set | | 6.9 | | N/A | |
| SW2 | downstream | | **Conductivity @20C uS/cm** | 10/06/2011 | none set | | 246 | | N/A | |
| SW2 | downstream | | **Ammonia as NH3-N mg/l** | 10/06/2011 | none set | | 0.935 | | N/A | |
| SW2 | downstream | | **Total Phosphorus as P mg/l** | 10/06/2011 | none set | | <0.05 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (%)** | 10/06/2011 | none set | | 66.5 @ lab | | N/A | |
| SW2 | downstream | | **Orthophosphate as PO4-P mg/l** | 10/06/2011 | none set | | <0.01 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (mg/l)** | 10/06/2011 | none set | | 6.98 @ lab | | N/A | |
| SW2 | downstream | | **COD mg/l** | 10/06/2011 | none set | | 29 | | N/A | |
| SW2 | downstream | | **Sodium, total mg/l** | 10/06/2011 | none set | | 9 | | N/A | |
| SW2 | downstream | | **Chloride mg/l** | 10/06/2011 | none set | | 27.18 | | N/A | |
| SW2 | downstream | | **Potassium, total mg/l** | 10/06/2011 | none set | | 0.8 | | N/A | |
| SW2 | downstream | | **Magnesium, total mg/l** | 10/06/2011 | none set | | 2 | | N/A | |
| SW2 | downstream | | **Sulphate mg/l** | 10/06/2011 | none set | | 12.93 | | N/A | |
| SW2 | downstream | | **Manganese, total ug/l** | 10/06/2011 | none set | | 256 | | N/A | |
| SW2 | downstream | | **Zinc, total ug/l** | 10/06/2011 | none set | | <5 | | N/A | |
| SW2 | downstream | | **Chromium, total ug/l** | 10/06/2011 | none set | | <0.5 | | N/A | |
| SW2 | downstream | | **Calcium, total mg/l** | 10/06/2011 | none set | | 26 | | N/A | |
| SW2 | downstream | | **Nickel, total ug/l** | 10/06/2011 | none set | | 0.5 | | N/A | |
| SW2 | downstream | | **Lead, total ug/l** | 10/06/2011 | none set | | <0.5 | | N/A | |
| SW2 | downstream | | **Cadmium, total ug/l** | 10/06/2011 | none set | | <0.5 | | N/A | |
| SW2 | downstream | | **Mercury ug/l** | 10/06/2011 | none set | | <0.05 | | N/A | |
| SW2 | downstream | | **Alkalinity, total mg/l** | 10/06/2011 | none set | | 81 | | N/A | |
| SW2 | downstream | | **TON as No mg/l** | 10/06/2011 | none set | | 0.16 | | N/A | |
| SW2 | downstream | | **Copper, total ug/l** | 10/06/2011 | none set | | <1 | | N/A | |
| SW2 | downstream | | **Iron, total ug/l** | 10/06/2011 | none set | | 1608 | | N/A | |
| SW2 | downstream | | | | none set | | | | N/A | |
| SW2 | downstream | | **BOD mg/l** | 08/07/2011 | none set | | <1 | | N/A | |
| SW2 | downstream | | **Suspended Solids mg/l** | 08/07/2011 | none set | | 17 | | N/A | |
| SW2 | downstream | | **pH** | 08/07/2011 | none set | | 6.6 | | N/A | |
| SW2 | downstream | | **Conductivity @20C uS/cm** | 08/07/2011 | none set | | 185 | | N/A | |
| SW2 | downstream | | **Ammonia as NH3-N mg/l** | 08/07/2011 | none set | | 0.049 | | N/A | |
| SW2 | downstream | | **Total Phosphorus as P mg/l** | 08/07/2011 | none set | | 0.09 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (%)** | 08/07/2011 | none set | | 75.1 @ lab | | N/A | |
| SW2 | downstream | | **Orthophosphate as PO4-P mg/l** | 08/07/2011 | none set | | <0.01 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (mg/l)** | 08/07/2011 | none set | | 6.91 @ lab | | N/A | |
| SW2 | downstream | | | | none set | | | | N/A | |
| SW2 | downstream | | **BOD mg/l** | 05/08/2011 | none set | | <1 | | N/A | |
| SW2 | downstream | | **Suspended Solids mg/l** | 05/08/2011 | none set | | 3 | | N/A | |
| SW2 | downstream | | **pH** | 05/08/2011 | none set | | 7.0 | | N/A | |
| SW2 | downstream | | **Conductivity @20C uS/cm** | 05/08/2011 | none set | | 259 | | N/A | |
| SW2 | downstream | | **Ammonia as NH3-N mg/l** | 05/08/2011 | none set | | 1.81 | | N/A | |
| SW2 | downstream | | **Total Phosphorus as P mg/l** | 05/08/2011 | none set | | 0.05 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (%)** | 05/08/2011 | none set | | 78.5 @ lab | | N/A | |
| SW2 | downstream | | **Orthophosphate as PO4-P mg/l** | 05/08/2011 | none set | | <0.01 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (mg/l)** | 05/08/2011 | none set | | 7.82 @ lab | | N/A | |
| SW2 | downstream | | | | none set | | | | N/A | |
| SW2 | downstream | | **BOD mg/l** | 07/09/2011 | none set | | <1 | | N/A | |
| SW2 | downstream | | **Suspended Solids mg/l** | 07/09/2011 | none set | | <2 | | N/A | |
| SW2 | downstream | | **pH** | 07/09/2011 | none set | | 6.9 | | N/A | |
| SW2 | downstream | | **Conductivity @20C uS/cm** | 07/09/2011 | none set | | 151 | | N/A | |
| SW2 | downstream | | **Ammonia as NH3-N mg/l** | 07/09/2011 | none set | | 0.197 | | N/A | |
| SW2 | downstream | | **Total Phosphorus as P mg/l** | 07/09/2011 | none set | | <0.05 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (%)** | 07/09/2011 | none set | | 65.2 @ lab | | N/A | |
| SW2 | downstream | | **Orthophosphate as PO4-P mg/l** | 07/09/2011 | none set | | 0.014 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (mg/l)** | 07/09/2011 | none set | | 5.59 @ lab | | N/A | |
| SW2 | downstream | | **COD mg/l** | 07/09/2011 | none set | | 52 | | N/A | |
| SW2 | downstream | | **Sodium, total mg/l** | 07/09/2011 | none set | | 10 | | N/A | |
| SW2 | downstream | | **Chloride mg/l** | 07/09/2011 | none set | | 17.8 | | N/A | |
| SW2 | downstream | | **Potassium, total mg/l** | 07/09/2011 | none set | | 1 | | N/A | |
| SW2 | downstream | | | | none set | | | | N/A | |
| SW2 | downstream | | **BOD mg/l** | 07/10/2011 | none set | | <1 | | N/A | |
| SW2 | downstream | | **Suspended Solids mg/l** | 07/10/2011 | none set | | <2 | | N/A | |
| SW2 | downstream | | **pH** | 07/10/2011 | none set | | 6.8 | | N/A | |
| SW2 | downstream | | **Conductivity @20C uS/cm** | 07/10/2011 | none set | | 249 | | N/A | |
| SW2 | downstream | | **Ammonia as NH3-N mg/l** | 07/10/2011 | none set | | 0.144 | | N/A | |
| SW2 | downstream | | **Total Phosphorus as P mg/l** | 07/10/2011 | none set | | 0.05 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (%)** | 07/10/2011 | none set | | 82.5 @ lab | | N/A | |
| SW2 | downstream | | **Orthophosphate as PO4-P mg/l** | 07/10/2011 | none set | | <0.01 | | N/A | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SW2 | downstream | | **Dissolved Oxygen (mg/l)** | 07/10/2011 | none set | | 8.9 @ lab | | N/A | |
| SW2 | downstream | | | | none set | | | | N/A | |
| SW2 | downstream | | **BOD mg/l** | 09/11/2011 | none set | | <1 | | N/A | |
| SW2 | downstream | | **Suspended Solids mg/l** | 09/11/2011 | none set | | <2 | | N/A | |
| SW2 | downstream | | **pH** | 09/11/2011 | none set | | 7.0 | | N/A | |
| SW2 | downstream | | **Conductivity @20C uS/cm** | 09/11/2011 | none set | | 200 | | N/A | |
| SW2 | downstream | | **Ammonia as NH3-N mg/l** | 09/11/2011 | none set | | 0.346 | | N/A | |
| SW2 | downstream | | **Total Phosphorus as P mg/l** | 09/11/2011 | none set | | <0.05 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (%)** | 09/11/2011 | none set | | 86.5 @ lab | | N/A | |
| SW2 | downstream | | **Orthophosphate as PO4-P mg/l** | 09/11/2011 | none set | | 0.012 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (mg/l)** | 09/11/2011 | none set | | 8.61 @ lab | | N/A | |
| SW2 | downstream | | **COD mg/l** | 09/11/2011 | none set | | 44 | | N/A | |
| SW2 | downstream | | **Sodium, total mg/l** | 09/11/2011 | none set | | 13 | | N/A | |
| SW2 | downstream | | **Chloride mg/l** | 09/11/2011 | none set | | 22.6 | | N/A | |
| SW2 | downstream | | **Potassium, total mg/l** | 09/11/2011 | none set | | 1 | | N/A | |
| SW2 | downstream | | | | none set | | | | N/A | |
| SW2 | downstream | | **BOD mg/l** | 02/12/2011 | none set | | <1 | | N/A | |
| SW2 | downstream | | **Suspended Solids mg/l** | 02/12/2011 | none set | | <2 | | N/A | |
| SW2 | downstream | | **pH** | 02/12/2011 | none set | | 7.5 | | N/A | |
| SW2 | downstream | | **Conductivity @20C uS/cm** | 02/12/2011 | none set | | 143 | | N/A | |
| SW2 | downstream | | **Ammonia as NH3-N mg/l** | 02/12/2011 | none set | | 0.144 | | N/A | |
| SW2 | downstream | | **Total Phosphorus as P mg/l** | 02/12/2011 | none set | | <0.05 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (%)** | 02/12/2011 | none set | | 69.8 @ lab | | N/A | |
| SW2 | downstream | | **Orthophosphate as PO4-P mg/l** | 02/12/2011 | none set | | <0.01 | | N/A | |
| SW2 | downstream | | **Dissolved Oxygen (mg/l)** | 02/12/2011 | none set | | 6.85 @ lab | | N/A | |
| | | | | | | | | | | |

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

**Table 2 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)**

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table 3 below | | | SELECT | Additional information | |
| 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 3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)**

| Emission reference no: | Emission released to | Parameter/ SubstanceNote 1 | Type of sample | Date of Monitoring | Averaging period | ELV or trigger values in licence or any revision therof[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) | % change in mass load from previous year +/- | 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

| | | 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 4 and compare it to its relevant Emission Limit Value (ELV)**

| | | | |
|---|---|---|---|
| 6 | Did continuous monitoring equipment experience downtime? **If yes please record downtime in table 4 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 5 below** | SELECT | |

### Table 4: 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) | % compliance current 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 5: 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/pipe testing report summary ALL IPPC/WASTE licensed facilities | **Intensive agriculture facilities please use alternative template**

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 1 below listing all bunds and containmen structures on site | Yes | |
| 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) | No | |

**Table 1:** Summary details of bund 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chassis # CF 329 | other (please specify) | Road haulage tanker | Leachate | 23m3 approx | N/A | Hydraulic test | | 12/08/2011 | Yes | Pass | | SELECT | | |
| Chassis # AJ 6135 | other (please specify) | Road haulage tanker | Leachate | 28m3 approx | N/A | Hydraulic test | | 20/08/2011 | Yes | Pass | | | | |
| | | | | | | | | | | | | | | |
| ID :NT 576604 | other (please specify) | Road haulage tanker | Leachate | 30m3 approx | N/A | Hydraulic test | | 20/07/2009 | Yes | Pass | | | | |
| Serial # PT 615617 | other (please specify) | Road haulage tanker | Leachate | 35.7m3 approx | N/A | Hydraulic test | | 18/01/2010 | Yes | Pass | | | | |
| Serial # AJ 8198 | other (please specify) | Road haulage tanker | Leachate | 31.5m3 approx | N/A | Hydraulic test | | 10/07/2009 | Yes | Pass | | | | |
| Serial # A205151 | other (please specify) | Road haulage tanker | Leachate | 31.5m3 approx | N/A | Hydraulic test | | 09/12/2009 | Yes | Pass | | | | |
| Leachate Tank 1 | reinforced concrete | | Leachate | 450 m3 | | Hydraulic test | | 2006 | Yes | Pass | | | Overdue | |
| Leachate Tank 2 | reinforced concrete | | Leachate | 450 m3 | | Hydraulic test | | 2006 | Yes | Pass | | | Overdue | |
| Leachate Tank 3 | reinforced concrete | | Leachate | 450 m3 | | Hydraulic test | | 2006 | Yes | Pass | | SELECT | Overdue | |

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

| | | | Commentary |
|---|---|---|---|
| 4 | Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance? | No | |
| 5 | Are channels/transfer systems to remote containment systems tested? | No | |
| 6 | Are channels/transfer systems compliant in both integrity and available volume? | SELECT | |
| 7 | Do all sumps and chambers have high level liquid alarms? | No | Some do, tanks have cut-off levels set. |
| 8 | If yes to Q7 are these failsafe systems included in a maintenance and testing programme? | SELECT | |

bunding and storage guidelines

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 | No | |
| 2 | Please provide integrity testing frequency period | SELECT | |

**Table 2:** Summary details of underground structures/pipeline 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

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Yes | No | N/A | | | | | | |
| | a)invest in capital improveme | b) operational improvements | c)nothing | 1 | 2 | 3 | 4 | 5 | 7 | 8 |
| reinforced concrete | general purpose concrete,prefabricated | | other (please specify) | | | | | | | |
| Pass | Fail | | | | | | | | | |
| Storm | Foul | Process | | | | | | | | |
| steel | ceramic | concrete | pvc | polypropylene | other(please specify) | Mix (please specify) | | | | |
| Double walled piping | Pipe in channel | Other (please specify) | | | | | | | | |
| CCTV | Hydraulic | Air | Combination | | | | | | | |
| Replaced section | Relined | Repaired crack | Removed obstruction | Other (please describe) | | | | | | |
| 3 years | Other (please specify) | | | | | | | | | |
| Hydraulic test | Structural assessment | Other (please specify) | | | | | | | | |

## Groundwater /Contaminated land summary report

| | | | Comments |
|---|---|---|---|
| 1 | Are you required to carry out groundwater monitoring as part of your licence requirements? | yes | |
| 2 | Are you required to carry out soil monitoring as part of your licence requirements? | no | |
| 3 | Do you extract groundwater for use on site? If yes please specify use in comment section | no | |
| 4 | Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12 | yes | |
| 5 | Is the contamination related to operations at the facility (either current and/or historic) | yes | historic |
| 6 | Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site | yes | Wellpoint groundwater remediation system is in |
| 7 | Please specify the proposed time frame for the remediation strategy | SELECT | Ongoing |
| 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? | no | |
| 11 | Have potential receptors been identified on and off site? | yes | |
| 12 | Is there evidence that contamination is migrating offsite? | yes | Very slight migration evidence, possibly historic in origin and shown to be reducing over time. |

**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** | % change in average concentration previous year +/- | Upward trend in pollutant concentration over last 5 years of monitoring data |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW1A | **TON as N mg/l** | Accredited lab | Quarterly | 0.21 | 0.17 | **mg/l** | not set | | | no |
| | MW1A | **pH** | Accredited lab | Quarterly | 7.1 | 6.875 | **pH Units** | not set | | | no |
| | MW1A | **Conductivity @20C uS/cm** | Accredited lab | Quarterly | 707 | 567.25 | **uS/cm** | 800-1875 | | | no |
| | MW1A | **Ammonia as NH3-N mg/l** | Accredited lab | Quarterly | 0.202 | 0.08975 | **mg/l** | 65-175 | | | no |
| | MW1A | **Total Phosphorus as P mg/l** | Accredited lab | Quarterly | <0.05 | <0.05 | **mg/l** | not set | | | no |
| | MW1A | **Sodium, total mg/l** | Accredited lab | Quarterly | 25 | 16.75 | **mg/l** | 150 | | | no |
| | MW1A | **Chloride mg/l** | Accredited lab | Quarterly | 42.3 | 27.05 | **mg/l** | 24-187.5 | | | no |
| | MW1A | **Dissolved Oxygen (%)** | Accredited lab | Quarterly | 26.1 | 21.05 | **%Sat** | N/A | | | no |
| | MW1A | **Potassium, total mg/l** | Accredited lab | Quarterly | 2 | 2 | **mg/l** | not set | | | no |
| | MW1A | **Orthophosphate as PO4-P mg/l** | Accredited lab | Quarterly | 0.016 | 0.0135 | **mg/l** | not set | | | no |
| | MW1A | **Dissolved Oxygen (mg/l)** | Accredited lab | Quarterly | 2.56 | 2.24 | **mg/l** | N/A | | | no |
| | MW1A | **TOC mg/l** | Accredited lab | Quarterly | 2.21 | 2.03675 | **mg/l** | not set | | | no |
| | | | | | | | | | | | no |
| | | | | | | | | | | | no |
| | | | | | | | SELECT | | | | 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** | % change in average concentration previous year +/- | Upward trend in yearly average pollutant concentration over last 5 years of monitoring data |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW 24 | **TON as N mg/l** | Accredited lab | Quarterly | <0.1 | <0.1 | **mg/l** | not set | | | no |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW 24 | **pH** | Accredited lab | Quarterly | 6.7 | 6.575 | **pH Units** | not set | | | no |
| | MW 24 | **Conductivity @20C uS/cm** | Accredited lab | Quarterly | 2350 | 2160 | **uS/cm** | 800-1875 | | | no |
| | MW 24 | **Ammonia as NH3-N mg/l** | Accredited lab | Quarterly | 74.4 | 61.5485 | **mg/l** | 65-175 | | | no |
| | MW 24 | **Total Phosphorus as P mg/l** | Accredited lab | Quarterly | 0.28 | 0.205 | **mg/l** | not set | | | no |
| | MW 24 | **Sodium, total mg/l** | Accredited lab | Quarterly | 193 | 180 | **mg/l** | 150 | | | no |
| | MW 24 | **Chloride mg/l** | Accredited lab | Quarterly | 427.03 | 392.805 | **mg/l** | 24-187.5 | | | no |
| | MW 24 | **Dissolved Oxygen (%)** | Accredited lab | Quarterly | 9 | 6.7 | **%Sat** | N/A | | | no |
| | MW 24 | **Potassium, total mg/l** | Accredited lab | Quarterly | 35 | 34.25 | **mg/l** | not set | | | no |
| | MW 24 | **Orthophosphate as PO4-P mg/l** | Accredited lab | Quarterly | <0.01 | <0.01 | **mg/l** | not set | | | no |
| | MW 24 | **Dissolved Oxygen (mg/l)** | Accredited lab | Quarterly | 0.94 | 0.7175 | **mg/l** | N/A | | | no |
| | MW 24 | **TOC mg/l** | Accredited lab | Quarterly | 85.62 | 70.955 | **mg/l** | not set | | | no |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | SELECT | | | | SELECT |

* please note exceedance of a relevant Groundwater threshold value (GTV) at a representative monitoring point does not indicate non compliance, an exceedance triggers further investigation to confirm whether the criteria for poor groundwater chemical status are being met.

**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)

**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 Liability Risk Assessment

| | | | Commentary |
|---|---|---|---|
| 1 | Is it a requirement of your licence to complete an ELRA? | Yes | |
| 2 | Has an initial ELRA been submitted to and approved by the Agency? | Yes | |
| 3 | Please enter the date of submission of the initial ELRA | Jan-11 | |
| 4 | Date of most recent substantial ELRA update | Jan-11 | |
| 5 | What financial instrument/s do you have in place to cover unknown liabilities? | None at present | Details of insurance being negotiated with IPB insurance. To be in place in 2012 and renewed annually by premium. |
| 6 | Has this financial instrument/s been verified by the Agency? | No | |
| 7 | What is the date of expiry of this financial instrument? | | Once in place it will be annual |
| 8 | Date of next required review of the ELRA? | 2013 | |

9 Please list the top 10 risks assessed on your site in table 1 below

**Table 1 ELRA summary information**

| Click here to access EPA guidance on ELRA | Operational Risk Assessment Category | 3 |
|---|---|---|

| | | | | Mitigation measures to reduce risk | | | ELRA | | |
|---|---|---|---|---|---|---|---|---|---|
| Risk ID | Potential hazards | Environmental effect | Previous risk score | Action | Date of implementation of mitigation measures | Comment | Revised Risk score for current reporting year | ELRA costing | Does the current financial provision (FP) cover the risk score? |
| e.g Chemical storage | Bund failure resulting in spillage of hazardous chemicals on site | Surface water /soil/groundwater contamination | 6 | Infrastructural improvements | 31/05/2009 | Relined all bunds >10years old on site | 3 | €10,000 | Yes |
| Fire | Accidental/malicious fire in sorting shed | ace water contamination/Infastructure | 4 | Operational controls | 2011 | on-going | 3 | €2,500,000 | SELECT |
| Fire | Machinery shed fire | ace water contamination/Infastructure | 3 | Operational controls | 2011 | on-going | 3 | €1,000,000 | SELECT |
| Traffic incident and spill | Spill of haz liquids | Surface water contamination | 3 | Operational controls | 2011 | on-going | 3 | €1,000,000 | SELECT |
| Traffic incident and spill | Spill of haz liquids | Surface water contamination | 3 | Operational controls | 2011 | on-going | 3 | €1,000,000 | SELECT |
| Landfill | Leacahte Spill/overflow | Surface water /soil/groundwater contamination | 2 | Capital investment | 2012 | on-going | 3 | €500,000 | SELECT |
| Landfill | Leacahte Spill/failure of structure | Surface water /soil/groundwater contamination | 2 | Capital investment | 2012 | on-going | 3 | €500,000 | SELECT |
| Pipeline failure | Well failure/Pipe damage | Air contamination/Fire risk | 2 | Operational controls | 2011 | on-going | 3 | €500,000 | SELECT |
| Pipeline failure | Pipe failure/ KO pot collapse | Air contamination/Fire risk | 2 | Operational controls | 2011 | on-going | 3 | €500,000 | SELECT |
| Traffic incident and spill | Haz waste spill | Surface water contamination | 2 | Operational controls | 2011 | on-going | 3 | €500,000 | SELECT |
| Fire | Accidental/ Malicious Fire | ace water contamination/Infastructure | 3 | Operational controls | 2011 | on-going | 2 | €100,000 | SELECT |
| SELECT | | | SELECT | SELECT | | | SELECT | | SELECT |
| Total | | | SELECT | SELECT | | | SELECT | | SELECT |

## Closure Restoration Aftercare Management Plan/ Restoration plan (CRAMP/RP)

| | | | |
|---|---|---|---|
| 1 | Was a closure or restoration plan a requirement of the licence? | Yes | |
| 2 | Has a closure plan submission been approved by the Agency? | Yes | Mar-11 |
| 3 | What is the timescale for submission? | | |
| 4 | What financial instrument do you have in place to cover known liabilities? | Parent company guarantee | |
| 5 | What is the date of expiry of this financial instrument? | None | |
| 6 | What is the status of implementation of the plan? | Active | Final capping in 2012 |

Table 2 CRAMP summary information (NON Landfill)

| Date of submission of plan | Risk category | Closure plan in place | Clean closure | Restoration Aftercare Management Plan | Change in Risk category since previous year | Increase in risk category | Does the current financial provision cover the risk score? | Value of current financial provision for site |
|---|---|---|---|---|---|---|---|---|
| | SELECT | SELECT | SELECT | SELECT | SELECT | SELECT | SELECT | |

## Environmental Management Programme (EMP)/Continuous Improvement Programme

| | Highlighted cells contain dropdown menu click to view | | Additional Information |
|---|---|---|---|
| 1 | Do you maintain an Environmental Mangement System for the site. If yes, please detail in additional information | Yes | On-site sytem |
| 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 | rmation maintained in a file in the public office for inspection duri |

**Environmental Management Programme (EMP) report**

| Objective Category | Target | Status (% completed) | How target was progressed | Responsibility | Intermediate outcomes |
|---|---|---|---|---|---|
| Reduction of emissions to Wastewater | Reduce leachate generating | 100 | | Individual | Reduced emissions |
| Energy Efficiency/Utility conservation | evaluate use of LFG for Pow | 60 | Contract issued to utilisation c | Section Head | Improved Environmental Management Practices |
| Waste reduction/Raw material usage efficiency | Divert biodegradeable waste | 100 | Green waste skip installed on | Individual | Increased compliance with licence conditions |

## Noise Monitoring Report Summary

| | | |
|---|---|---|
| 1 | Was noise monitoring a licence requirement for the AER period?<br>If yes please fill in table 1 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? Draft Noise Guidance | No |
| 3 | Does your site have a noise reduction plan | No |
| 4 | When was the noise reduction plan last updated? | |
| 5 | Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey? | No |

**Table 1: 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)? |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY | | | | | | | | | | | |
| 19/12/2011 | 30 mins | | N1, Road junction with site | 70.1 | 44.6 | 74.6 | 85 | No | SELECT | Road traffic in close pro | Yes |
| 19/12/2011 | 30 mins | N2 | | 62.6 | 43 | 59.3 | 88.6 | No | | Waste trucks in close pr | Yes |
| 19/12/2011 | 30 mins | N5 | | 44.9 | 43.2 | 46.2 | 57.7 | No | | | Yes |
| 19/12/2011 | 30 mins | | N6 , NSL | 54.6 | 42.3 | 59.3 | 67.4 | No | | Road traffic noise main | Yes |
| NIGHT | | | | | | | | | | | |
| 19/12/2011 | 30 mins | | N1, Road junction with site | 59.8 | <31.2 | 50.1 | 82.7 | No | | Road noise | Yes |
| 19/12/2011 | 30 mins | N2 | | 34.2 | <31.2 | 34 | 54.5 | No | | | Yes |
| 19/12/2011 | 30 mins | N5 | | 37.9 | 36.6 | 38.6 | 54 | No | | | Yes |
| 19/12/2011 | 30 mins | | N6 , NSL | 52.6 | <31.2 | 54.8 | 68.2 | No | | Road Noise | 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? nothing**

High noise at N6 NSL at night was related to road traffic and there was no site noise audible.

Although a noise reduction plan is not in place, noise generation is taken into account when using/hiring plant and machinery. E.g. only noise insulated silent pumps are hired for leachate pumping. Also at the time of monitoring I was not aware of the new draft guidance document.

## Resource usage/ Energy Efficiency

| | | | Additional information |
|---|---|---|---|
| 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 | SEAI - Large Industry Energy Network (LIEN) | no |
| 3 | Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information | SELECT | Not applicable |

Table 1 Energy usage on site

| Energy Use | Previous year kWh | Current year kWh | Production +/- % compared to previous reporting year** | Energy Consumption +/- % vs overall site production* |
|---|---|---|---|---|
| Total | | | | |
| Electricity | 215418.4 | 221,619 | | 2.88 |
| Fossil Fuels: | 0 | | | |
| Heavy Fuel Oil | 64102 | 56536.32 | | -11.80 |
| Light Fuel Oil | 80 | 34.29 | | -57.14 |
| Natural gas | 0 | 0 | | |
| Coal/Solid fuel | 0 | 0 | | |
| Renewable energy generated on site | 0 | 0 | | |

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

Table 2 Water usage on site

| Water use | Previous year m3/yr. | Current year m3/yr. | Production +/- % compared to previous reporting year** | Energy Consumption +/- % vs overall site production* |
|---|---|---|---|---|
| Groundwater | 0 | 0 | | |
| Surface water | 773 | 473 | | |
| Public supply | 180 | 150 | | |
| Total | 953 | 622.793 | | |

* 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 3: 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 | | | | | |

**SECTION A-PRTR 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 | Yes | |
| 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 (European Waste Catalogue EWC codes) | Source of waste accepted | Description of waste accepted **Please enter an accurate and detailed description - which** (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 - |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E.g. | | *07 05 04** | *07- WASTES FROM ORGANIC CHEMICAL PROCESSES* | *other organic solvents, washing liquids and mother liquors* | *22* | *12* | 83% | | *0%* | *SELECT* | | *Brought onto site from sister IPPC plant* |
| E.g. | | *20 01 08* | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | *biodegradable kitchen and canteen waste* | *10* | *20* | -50% | | *0%* | *SELECT* | | |
| | *40000* | *20 03 01* | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | *Waste from municipal waste collections* | *31503.34* | *33269.16* | -5% | | | *D5- Specially engineered landfill* | | |
| | | *20 03 03* | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | *Street cleaning and clean up of fly tipping by local authority* | *1464.11* | *1436.94* | | | | *D5- Specially engineered landfill* | | |
| | | *19 08 01* | *19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE* | *Screenings* | *35.2* | *64.42* | | *Loss of customer* | | *D5- Specially engineered landfill* | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | *SELECT* | | | | #DIV/0! | | | *SELECT* | | |

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

| | | |
|---|---|---|
| 4 | Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite | Yes |
| | | SELECT |
| 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 |
|---|---|---|---|---|---|
| e.g. | Household (residual) | 40,000 | 33,003 | | Landfill will reasch capacity in H1 2012. |
| e.g. | Industrial non hazardous solids | 0 | 0 | 12,000 | Landfill will reasch capacity in H1 2012. |
| | | | | | |
| | | | | | |

**Table 3 General information-Landfill only**

| Area ID | Date landfilling commenced | Date landfilling ceased | Currently landfilling | Private or Public Operated | Inert or non-hazardous | Predicted date to cease landfilling | Licence permits asbestos | Is there a separate cell for asbestos? | Accepted asbestos in reporting year | Total disposal area occupied by waste | Lined disposal area occupied by waste | Unlined area | Comments on liner type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | SELECT UNIT | SELECT UNIT | SELECT UNIT | |
| Cell 3 | Nov-06 | N/a | Yes | Public | Non Hazardous | 30/03/2012 | No | No | No | 37000 | 37000 | 37000 | BES and 2mm HDPE |

**Table 4 Environmental monitoring-landfill on** 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 | No | No | Yes | Yes | Review in relation to S53A as per Agency guidelines to be submitted by 30/4/12 |

.+ 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 | | | | | |
| 22000 | 10000 | 15000 | 32000 | 15000 | 1mm ldpe liner | |

*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 |
|---|---|---|---|---|---|---|---|
| 98574.9 | 7672.4 | 19628.7 | see comment | 17559.5 | None | | NH4 not recorded, NH3 Ammonia = 10655.79kg |

Please ensure that all information reported in the landfil 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 |
|---|---|---|---|---|
| 635,108 | None | N/A | No | Surface emissions carried out in 2010 |

Guidance to completing the PRTR workbook

# AER Returns Workbook

Version 1.1.13

| | |
|---|---|
| **REFERENCE YEAR** | 2011 |

**1. FACILITY IDENTIFICATION**

| | |
|---|---|
| Parent Company Name | Mayo County Council |
| Facility Name | Derrinumera Landfill Facility |
| PRTR Identification Number | W0021 |
| Licence Number | W0021-02 |

Waste or IPPC Classes of Activity

| No. | class_name |
|---|---|
| 3.1 | Deposit on, in or under land (including landfill). |
| 3.13 | Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced. |
| 3.5 | Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment. |
| 3.6 | Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1. to 10. of this Schedule. |
| 3.7 | ############################################################ |
| 4.13 | Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced. |
| 4.2 | Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes). |
| 4.3 | Recycling or reclamation of metals and metal compounds. |
| 4.4 | Recycling or reclamation of other inorganic materials. |

| | |
|---|---|
| Address 1 | Derrinumera/Drumilra (Townlands) |
| Address 2 | Newport |
| Address 3 | County Mayo |
| Address 4 | |
| | |
| | Mayo |
| Country | Ireland |
| Coordinates of Location | -7.4634 53.8497 |
| River Basin District | IEWE |
| NACE Code | 3821 |
| Main Economic Activity | Treatment and disposal of non-hazardous waste |
| **AER Returns Contact Name** | Killian Farrell |
| **AER Returns Contact Email Address** | kfarrell@mayococo.ie |
| **AER Returns Contact Position** | Deputy Landfill Manager |
| **AER Returns Contact Telephone Number** | 098 41632 |
| **AER Returns Contact Mobile Phone Number** | 087 9155475 |
| **AER Returns Contact Fax Number** | 098 41676 |
| **Production Volume** | 0.0 |
| **Production Volume Units** | |
| **Number of Installations** | 0 |
| **Number of Operating Hours in Year** | 2626 |
| **Number of Employees** | 10 |
| **User Feedback/Comments** | Could waste details 1 and 2 be pre-filled with previous years information to reduce time completing the spreadsheet? |
| **Web Address** | www.mayococo.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? | |
| Have you been granted an exemption ? | |
| If applicable which activity class applies (as per Schedule 2 of the regulations) ? | |
| Is the reduction scheme compliance route being used ? | |

**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

| RELEASES TO AIR | | | | | Please enter all quantities in this section in KGs | | | |
|---|---|---|---|---|---|---|---|---|
| POLLUTANT | | METHOD | | | | QUANTITY | | |
| | | | Method Used | | Flare | | | |
| 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 |
| **03** | **Carbon dioxide (CO2)** | M | CRM | GASSIM | 2969766.2 | 2969766.2 | 0.0 | 0.0 |
| 01 | Methane (CH4) | E | OTH | Calculated from Flare | 602929.7 | 602929.7 | 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:** Derrinumera Landfill Facility

| **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) | 1019919.7 | M | CRM | GASSIM | N/A | |
| Methane flared | 416990.0 | E | OTH | Bernard hyde spreadsheet | 250.0 | (Total Flaring Capacity) |
| Methane utilised in engine/s | 0.0 | | | | 0.0 | (Total Utilising Capacity) |
| Net methane emission (as reported in Section A above) | 602929.7 | E | OTH | Calculated from flare | N/A | |

**5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE** - [ PRTR : W0021 ] Facility Name : Derrinumera Landfill Facility [ Filename : PRTR w0021_2011.xls ] Return Year : 2011 ]

**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: M/C/E | Method Used: 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Within the Country | 19 07 03 | No | 9857.49 | landfill leachate other than those mentioned in 19 07 02 | D9 | M | Weighed | Offsite in Ireland | Westport WWTP,D0055-01 | ,,,,,,,Ireland | | |
| Within the Country | 20 01 01 | No | 224.36 | paper and cardboard | R3 | M | Weighed | Offsite in Ireland | Bourlie Waste,wfp/mo/08/0004/01 | Clogher,,,Westport,,,Ireland | | |
| Within the Country | 17 08 02 | No | 16.98 | gypsum-based construction materials other than those mentioned in 17 08 01 | R5 | M | Weighed | Offsite in Ireland | Greyhound Recycling,W0205-01 | Craig Avenue Clondalkin Industrial Estate,,,Dublin,22,Ireland | | |
| Within the Country | 20 01 40 | No | 146.54 | metals | R4 | M | Weighed | Offsite in Ireland | Galway Metal,WFR 05/04 | Oranmore,re,,,Galway,,,Ireland | | |
| Within the Country | 20 01 39 | No | 17.64 | plastics | R3 | M | Weighed | Offsite in Ireland | Greyhound Recycling,W0205-01 | Craig Avenue Clondalkin Industrial Estate,,,Dublin,22,Ireland | | |
| Within the Country | 20 01 39 | No | 23.36 | plastics | R3 | M | Weighed | Offsite in Ireland | Greyhound Recycling,W0205-01 | Craig Avenue Clondalkin Industrial Estate,,,Dublin,22,Ireland | | |
| Within the Country | 16 01 03 | No | 5.56 | end-of-life tyres | R5 | M | Weighed | Offsite in Ireland | Greyhound Recycling,W0205-01 | Craig Avenue Clondalkin Industrial Estate,,,Dublin,22,Ireland | | |
| Within the Country | 20 01 25 | No | 1.16 | edible oil and fat | R3 | M | Weighed | Offsite in Ireland | Frylite,CW2 27 | Kilcolgan,,,Galway,,,Ireland ,,Unit 504A Greenogue Business Park | | |
| Within the Country | 20 01 10 | No | 27.18 | clothes | R3 | M | Weighed | Offsite in Ireland | Textile Recycling Ltd,WPR-014 | Rathcoole,Dublin,24,Ireland | | |
| Within the Country | 20 01 02 | No | 89.76 | glass | R5 | M | Weighed | Offsite in Ireland | Rehab Recycling,03/02 | Ballymount,,,Dublin,,,Ireland | | |
| Within the Country | 20 01 02 | No | 18.52 | glass | R5 | M | Weighed | Offsite in Ireland | Barna Waste,W0106-02 | Carrowbrowne Headford Road ,,,Galway,,,Ireland | | |
| Within the Country | 20 02 01 | No | 36.84 | biodegradable waste | R3 | M | Weighed | Offsite in Ireland | Barna Waste,W0106-02 | Carrowbrowne Headford Road ,,,Galway,,,Ireland | | |
| Within the Country | 20 01 01 | No | 130.86 | paper and cardboard | R3 | M | Weighed | Offsite in Ireland | Greyhound Recycling,W0205-01 | Craig Avenue Clondalkin Industrial Estate,,,Dublin,22,Ireland | | |
| Within the Country | 20 01 36 | No | 41.145 | discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35 | R4 | M | Weighed | Offsite in Ireland | KMK metal,W0113-02 | Cappincur Industrial estate,Daingean Road,Tullamore Co. Offaly,,,Ireland | | |
| Within the Country | 20 01 40 | No | 5.66 | metals | R4 | M | Weighed | Offsite in Ireland | Greyhound Recycling,W0205-01 | Craig Avenue Clondalkin Industrial Estate,,,Dublin,22,Ireland | | |
| Within the Country | 20 01 40 | No | 20.26 | metals | R4 | M | Weighed | Offsite in Ireland | Erin Recyclers,WP-SO-08-93 | deep water quay,Finisklin,Sligo,,,Ireland | | |
| Within the Country | 20 01 39 | No | 29.06 | plastics | R3 | M | Weighed | Offsite in Ireland | Barna Waste,W0106-02 | Carrowbrowne Headford Road ,,,Galway,,,Ireland | | |
| Within the Country | 20 01 99 | No | 5.74 | other fractions not otherwise specified | R3 | M | Weighed | Offsite in Ireland | Barna Waste,W0106-02 | Carrowbrowne Headford Road ,,,Galway,,,Ireland | | |
| Within the Country | 20 01 38 | No | 188.75 | wood other than that mentioned in 20 01 37 | R3 | M | Weighed | Onsite of generatio | Derrinumera Landfill Site,W0021-02 | ,,,Nevport Co. Mayo,,,Ireland | | |
| Within the Country | 20 01 39 | No | 1.44 | plastics | R3 | M | Weighed | Offsite in Ireland | Greyhound Recycling,W0205-01 | Craig Avenue Clondalkin Industrial Estate,,,Dublin,22,Ireland | | |
| Within the Country | 20 01 33 | Yes | 10.4 | batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries | R4 | M | Weighed | Offsite in Ireland | RILTA,W0192-02 | Grants Drive ,402 Greenogue Business Park rathcoole,Dublin,,,Ireland | RILTA,W0192-02,grants drive,402 greenogue Business Park rathcoole,Dublin,,,Ireland | grants drive,402 greenogue Business Park rathcoole,Dublin,,,Ireland |
| Within the Country | 20 01 33 | Yes | 2.292 | batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries | R4 | M | Weighed | Offsite in Ireland | KMK metal,W0113-02 | Cappincur Industrial estate,Daingean Road,Tullamore Co. Offaly,,,Ireland | KMK metal,W0113-02,Cappincur Industrial estate Daingean road,,,Tullamore Co. Offaly,,,Ireland | ,,,,,,,Ireland |
| Within the Country | 20 01 34 | No | 1.763 | batteries and accumulators other than those mentioned in 20 01 33 | R4 | M | Weighed | Offsite in Ireland | KMK metal,W0113-02 | Cappincur Industrial estate,Daingean Road,Tullamore Co. Offaly,,,Ireland | KMK metal,W0113-02,Cappincur Industrial estate Daingean road,,,Tullamore Co. Offaly,,,Ireland | ,,,,,,,Ireland |
| Within the Country | 20 01 36 | No | 43.527 | discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35 | R4 | M | Weighed | Offsite in Ireland | KMK metal,W0113-02 | Cappincur Industrial estate,Daingean Road,Tullamore Co. Offaly,,,Ireland | | |
| Within the Country | 20 01 36 | No | 155.943 | discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35 | R4 | M | Weighed | Offsite in Ireland | KMK metal,W0113-02 | Cappincur Industrial estate,Daingean Road,Tullamore Co. Offaly,,,Ireland | | |
| Within the Country | 20 01 23 | Yes | 22.637 | discarded equipment containing chlorofluorocarbons | R4 | M | Weighed | Offsite in Ireland | KMK metal,W0113-02 | Cappincur Industrial estate,Daingean Road,Tullamore Co. Offaly,,,Ireland | KMK metal,W0113-02,Cappincur Industrial estate Daingean road,,,Tullamore Co. Offaly,,,Ireland | ,,,,,,,Ireland |
| Within the Country | 20 01 21 | Yes | 0.976 | fluorescent tubes and other mercury-containing waste | R4 | M | Weighed | Offsite in Ireland | KMK metal,W0113-02 | Cappincur Industrial estate,Daingean Road,Tullamore Co. Offaly,,,Ireland | KMK metal,W0113-02,Cappincur Industrial estate Daingean road,,,Tullamore Co. Offaly,,,Ireland | ,,,,,,,Ireland |
| **Within the Country** | **02 01 04** | **No** | 20.0 | waste plastics (except packaging) | R3 | M | Weighed | Offsite in Ireland | IFFPG,Exempt | Waverly Road,,,Dublin,10,Ireland | | |
| To Other Countries | 20 01 27 | Yes | 29.78 | paint, inks, adhesives and resins containing dangerous substances | R1 | M | Weighed | Abroad | Ecosafe systems(SRCL),W0054-02 | Unit 1A Allied Industrial Estate Kylemore Road,,,Dublin ,10,Ireland | Recyfuel SA,BE 45973545 8,Zoning Industrial dHein,,,Engis,B4480,Belgium | ,,,,,,Belgium |
| Within the Country | 20 01 26 | Yes | 10.06 | oil and fat other than those mentioned in 20 01 25 | R9 | M | Weighed | Offsite in Ireland | ENVA,W0184-01 | Clonminam Industrial estate,,,Portlaoise Co. Laois,,,Ireland | ENVA,W0184-01,Clonminam Industrial estate,,,Portlaoise Co. Laois,,,Ireland | ,,,,,,,Ireland |
| Within the Country | 16 05 04 | Yes | 0.76 | gases in pressure containers (including halons) containing dangerous substances | R4 | M | Weighed | Offsite in Ireland | ENVA,W0184-01 | Clonminam Industrial estate,,,Portlaoise Co. Laois,,,Ireland | ENVA,W0184-01,Clonminam Industrial estate,,,Portlaoise Co. Laois,,,Ireland | ,,,,,,,Ireland |
| Within the Country | 16 01 07 | Yes | 0.6 | oil filters | R9 | M | Weighed | Offsite in Ireland | Barna Waste,W0106-02 Derrinumera Landfill | Carrowbrowne Headford Road ,,,Galway,,,Ireland | ENVA,W0184-01,Clonminam Industrial estate,,,Portlaoise Co. Laois,,,Ireland | ,,,,,,,Ireland |
| Within the Country | 17 02 01 | No | 437.44 | wood | R3 | M | Weighed | Offsite in Ireland | Derrinumera Landfill Site,W0021-02 | ,,,Nevport Co. Mayo,,,Ireland | | |
| Within the Country | 19 12 07 | No | 197.38 | wood other than that mentioned in 19 12 06 | R3 | M | Weighed | Offsite in Ireland | Derrinumera Landfill Site,W0021-02 | ,,,Nevport Co. Mayo,,,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

Environmental Protection Agency

# A survey of landfill sites to determine the quantity of methane flared and or recovered in utilisation plants for 2011

| | |
|---|---|
| Please choose from the drop down menu the license number for your site | W0021 |
| Please choose from the drop down menu the name of the landfill site | Derrinumera Landfill Facility |
| Please enter the number of flares operational at your site in 2011 | 1 |
| Please enter the number of engines operational at your site in 2011 | Select |
| Total methane flared | #REF! kg/year |
| Total methane utilised in engines | #REF! kg/year |

**Please note that the closing date for reciept of completed surveys is 31/03/2012**

**Introduction**

The Office of Climate Licensing and Resource Use (OCLR) of the Environmental Protection Agency acts as the inventory agency in Ireland with responsibility for compiling and reporting national greenhouse gas inventories to the European Commission and the United Nations Framework Convention on Climate Change. In addition to meeting international commitments Ireland's national greenhouse gas inventory informs national agencies and Government departments as they face the challenge to curb emissions and meet Ireland's targets under the Kyoto Protocol. The national inventory also informs data suppliers, making them aware of the importance of their contributions to the inventory process and a means of identifying areas where input data may be improved.

It is on this basis that the Environmental Protection Agency is asking landfill operators to partake in this survey so that the most uptodate information on methane flaring and recovery in utilisation plants at landfills sites is used in calculating the contribution of the waste sector to national greenhouse gas emissions

The Environmental Protection Agency wishes to thank you for partaking in this survey. If you have any questions about the survey and how to complete it please view the "Help sheet" worksheet. If however, your query is not answered by viewing the "Help sheet" worksheet please contact:
LFGProject@epa.ie

Once completed please send the completed file as an attachment clearly stating the name and or license number of the landfill site (e.g. W000 Xanadu landfill_2011) to:
LFGProject@epa.ie

| | to be filled in by licensee | | calculated by spreadsheet | |
|---|---|---|---|---|

**Flare No. 1**

| | | | |
|---|---|---|---|
| **Flare type ?** | Organics SC250 | **If "other" enter flare description here** | |
| **Is the flare an open or enclosed flare ?** | Enclosed | **Rated flare capacity ?** | 250 **m3/hr** |
| **Month /year comissioned ?** | July 2001 | | |
| **Month decomissioned if decomissioned in 2011 ?** | Select | | |
| **What is the function of the flare ?** | Extraction from capped and uncapped areas | **If "other" enter flare function here** | |

| **Monthly** | Method M/C/E | Runtime days/month | Runtime hrs/day | Downtime hrs | Total runtime hrs/month | Average Inlet Pressure (mbg) | Average Flow Rate ($m^3$/hr) | Average $CH_4$ %v/v | Average $CO_2$ %v/v | Average $O_2$ %v/v | Combustion efficiency (%) | Total $CH_4$ $m^3$ | Total $CH_4$ kgs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | MCE | 31 | 24.0 | | 744 | -40 | 220 | 32.40 | 23.10 | 5.20 | 98.0 | 51,972 | 34,467 |
| February | MCE | 28 | 24.0 | | 672 | -40 | 220 | 32.40 | 23.10 | 5.20 | 98.0 | 46,942 | 31,132 |
| March | MCE | 31 | 24.0 | 12.0 | 732 | -40 | 220 | 32.40 | 23.10 | 5.20 | 98.0 | 51,133 | 33,911 |
| April | MCE | 30 | 24.0 | 10.0 | 710 | -48 | 221 | 37.00 | 25.00 | 5.00 | 98.0 | 56,896 | 37,423 |
| May | MCE | 31 | 24.0 | | 744 | -48 | 221 | 37.00 | 25.00 | 5.00 | 98.0 | 59,620 | 39,215 |
| June | MCE | 30 | 24.0 | | 720 | -48 | 221 | 37.00 | 25.00 | 5.00 | 98.0 | 57,697 | 37,950 |
| July | MCE | 31 | 24.0 | | 744 | -48 | 221 | 37.00 | 25.00 | 5.00 | 98.0 | 59,620 | 39,215 |
| August | MCE | 31 | 24.0 | | 744 | -56 | 232 | 31.00 | 25.00 | 4.00 | 98.0 | 52,438 | 34,205 |
| September | MCE | 30 | 24.0 | | 720 | -56 | 232 | 31.00 | 25.00 | 4.00 | 98.0 | 50,747 | 33,102 |
| October | MCE | 31 | 24.0 | | 744 | -56 | 232 | 31.00 | 25.00 | 4.00 | 98.0 | 52,438 | 34,205 |
| November | MCE | 30 | 24.0 | 14.0 | 706 | -59 | 232 | 29.00 | 24.00 | 4.00 | 98.0 | 46,550 | 30,269 |
| December | MCE | 31 | 24.0 | | 744 | -59 | 232 | 29.00 | 24.00 | 4.00 | 98.0 | 49,055 | 31,898 |
| Total | | | | | 8,724 | | | | | | | 635,108 | 416,990 |

**Please note: Only fill the "Yearly" table if data is not availabe or cannot be calculated nor estimated on a monthly basis**

| **Yearly** | Method M/C/E | Runtime days/year | Runtime hrs/day | Downtime hrs | Total runtime hrs/year | Average Inlet Pressure (mbg) | Average Flow Rate $m^3$/hr | Average $CH_4$ %v/v | Average $CO_2$ %v/v | Average $O_2$ %v/v | Combustion efficiency (%) | Total $CH_4$ $m^3$ | Total $CH_4$ kgs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2011** | | | | | 0 | | | | | | 98.0 | 0 | 0 |