

Facility Information Summary	
AER Reporting Year	2014
Licence Register Number	W0029-04
Name of site	Derryclure Landfill
Site Location	Derryclure and Killeigh, Tullamore, Co. Offaly
NACE Code	
Class/Classes of Activity	Closed Landfill - Waste Transfer and Recycling Centre
National Grid Reference (6E, 6 N)	
A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year 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.	Landfilling ceased at the site in 2011, with final capping works completed in 2012. In 2014 the activities on the site relate to a small Waste Transfer Area at the front of the site and a Recycling Centre.

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.

Marian Healy	3rd June 2015
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

AIR-summary template Lic No: W0029-04 Year 2014

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

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

Flare Emission Monitoring undertaken - report uploaded to Eden - No issues noted in results.

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable

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

AIR-summary template	Lic No:	W0029-04	Year	2014
Continuous Monitoring				

- 4 Does your site carry out continuous air emissions monitoring?
If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)

No	Continuous monitoring of flow, O2, CH4, etc as recorded on the Scada system for flare operation - this information is included in the Landfill Gas Survey submitted 8 April 2015.
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- 5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below

Yes	See full hours in Landfill Gas Survey submitted on 8th April 2015.
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- 6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?

Yes	Work with Irish Biotech Systems for Flare infrastructure - with callout and support available promptly as required.
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- 7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below

No	
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Table A2: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
	SELECT			SELECT	SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

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

Table A3: Abatement system bypass reporting table

[Bypass protocol](#)

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

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

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

Solvent use and management on site

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

No

Table A4: Solvent Management Plan Summary		Solvent regulations Please refer to linked solvent regulations to complete table 5 and 6
Total VOC Emission limit value		

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

Table A5: Solvent Mass Balance summary

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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0029-04 Year 2014

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 No direct emisinos to SW or GW from the activity - montingr undertaken as per licence - see reports uploaded to Eden.
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	No

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
			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 W3 below	Yes See incident for 1/10/2014 for EPA monitoring results for SW7 with exceedance for TSS and COD. This result was out of sync with Q1-3, and the WQ4 monitoring in December 2014 again showed no issues at SW7.
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	Yes External/Internal Lab Quality checklist Assessment of results checklist

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

Emission reference no:	Emission released to	Parameter/ 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
		SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			
	See attached reports - only issue highlighted above														

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

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

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

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

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below 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 testing dropdown menu click to see options

Additional information

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

- 1
- 2 Please provide integrity testing frequency period
- Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
- 3
- 4 How many bunds are on site?
- 5 How many of these bunds have been tested within the required test schedule?
- 6 How many mobile bunds are on site?
- 7 Are the mobile bunds included in the bund test schedule?
- 8 How many of these mobile bunds have been tested within the required test schedule?
- 9 How many sumps on site are included in the integrity test schedule?
- 10 How many of these sumps are integrity tested within the test schedule?

Yes	
SELECT	
Yes	
One	
None	
Yes	
Yes	
SELECT	N/A

Please list any sump integrity failures in table B1

- 11 Do all sumps and chambers have high level liquid alarms?
- 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
- 13 Is the Fire Water Retention Pond included in your integrity test programme?

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

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

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

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?

- 15
- 16 Are channels/transfer systems to remote containment systems tested?
- 17 Are channels/transfer systems compliant in both integrity and available volume?

[bundings and storage guidelines](#)

Commentary	
SELECT	
SELECT	
SELECT	

Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing* on underground structures e.g. pipelines or sumps etc? if yes please fill out table 2 below listing all

- 1 underground structures and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**

2 Please provide integrity testing frequency period

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

SELECT	
SELECT	

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

Bund on site is a purpose built shed for household hazardous waste containers deposited by the domestic sector at the Recycling Centre

Groundwater/Soil monitoring template	Lic No: W0029-04	Year: 2014
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		Comments
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes
2	Are you required to carry out soil monitoring as part of your licence requirements?	no
3	Do you extract groundwater for use on site? If yes please specify use in comment section	no
4	Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Groundwater monitoring template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	yes
5	Is the contamination related to operations at the facility (either current and/or historic)	SELECT
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	SELECT
7	Please specify the proposed time frame for the remediation strategy	SELECT
8	Is there a licence condition to carry out/update ELRA for the site?	SELECT
9	Has any type of risk assessment been carried out for the site?	SELECT
10	Has a Conceptual Site Model been developed for the site?	SELECT
11	Have potential receptors been identified on and off site?	SELECT
12	Is there evidence that contamination is migrating offsite?	SELECT

Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretation as an additional section in this AER

Elevated results being investigated - will be advanced in Q3 2015 with report to Agency.

Issues raised in the reports are currently being assessed - and will be uploaded to Eden as requested.

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
							SELECT			SELECT
							SELECT			SELECT

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
							SELECT			SELECT
							SELECT			SELECT

Groundwater/Soil monitoring template	Lic No: W0029-04	Year: 2014
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*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.

More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance [Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#) (see the link in G31)

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

- [Groundwater](#)
- [Drinking water](#)
- [Surface water EQS](#)
- [regulations](#)
- [\(private supply\)](#)
- [GTV's](#)
- [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

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

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

Environmental Management Programme/Continuous Improvement Programme template	Lic No:	W0029-04	Year	2014
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	Highlighted cells contain dropdown menu click to view	Additional Information
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	SELECT Previously included in AER's - more detailed when site was fully operational.
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes 2015 Program relates to GW monitoring and GP18 gas results
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	SELECT
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	SELECT

Environmental Management Programme (EMP) report

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

Noise monitoring summary report	Lic No: W0029-04	Year	2014
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- 1 Was noise monitoring a licence requirement for the AER period?
If yes please fill in table N1 noise summary below Yes
- 2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6? Yes
- 3 Does your site have a noise reduction plan? No
- 4 When was the noise reduction plan last updated? Enter date
- 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey? No

[Noise Guidance note NG4](#)

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
28 & 29 July 2	See report uploaded to Eden							SELECT	SELECT		SELECT

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

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

nothing**

Related to vehicle movements - No actions required.

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

Any additional comments? (less than 200 words)

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
[SEAI - Large](#)
- 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
[Industry Energy Network \(LIEN\)](#)
- 2 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information
- 3

Additional information	
Enter date of audit	None in 2014
No	
SELECT	Not used

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

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

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

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

Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

Resource Usage/Energy efficiency summary Lic No: W0029-04 Year 2014

Table R4: Energy Audit finding recommendations								
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry)please complete the following information

	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology					
Primary Fuel					
Thermal Efficiency					
Unit Date of Commission					
Total Starts for year					
Total Running Time					
Total Electricity Generated (GWH)					
House Load (GWH)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					

Complaints and Incidents summary template Lic No: W0029-04 Year: 2014

Complaints Additional information

Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below

No

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 Additional information

Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below

Yes 14 in 2014

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

Date of occurrence	Incident nature	Location of occurrence	Incident category* please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of reoccurrence
15/01/2014	Trigger level reached	Licensed discharge point (ty	1. Minor	Air	Other (add details	Landfill gas trigger level exceeded for CH4 at GP monitoring points - GP 19 & GP 29	Normal activities	EPA	Recurring			Ongoing		Medium
08/04/2014	Monitoring equipment offline	Licensed discharge point (ty	1. Minor	No Uncontrolled release	Plant or equipment malfunctioned	Flowmeter for measuring volume of leachate	Normal activities	EPA	New	Contractor engaged immediately to replace the flowmeter. Pump remained operational - only flowmeter affected - so no adverse impact.	N/A	Complete	10/04/2014	Low
23/04/2014	Monitoring equipment offline	Licensed discharge point (ty	1. Minor	No Uncontrolled release	Plant or equipment	Unscheduled flare shut down due to power outage in local area	Normal activities	SELECT	New	Flare shut down due to power supply issue beyond the site	N/A	Complete	24/04/2014	Low
11/02/2014	Trigger level reached	Licensed discharge point (ty	1. Minor	Air	Other (add details	Landfill gas trigger level exceeded for CH4 at GP monitoring points - GP 18 & GP 29	Normal activities	EPA	Recurring			Ongoing		Medium
28/04/2014	Trigger level reached	Licensed discharge point (ty	1. Minor	Air	Other (add details	Landfill gas trigger level exceeded for CH4 at GP monitoring points - GP 1 & GP 18	Normal activities	EPA	New			Ongoing		Medium

Complaints and Incidents summary template												Lic No:	W0029-04	Year:	2014
16/05/2014	Trigger level reached	Licensed discharge point (typ	1. Minor	Air	Other (add details	Landfill gas trigger level exceeded for CH4 at GP monitoring point - GP 18	Normal activities	EPA	Recurring			Ongoing		Medium	
25/06/2014	Trigger level reached	Licensed discharge point (typ	1. Minor	Air	Other (add details	Landfill gas trigger level exceeded for CH4 at GP monitoring points - GP 1 & GP 18	Normal activities	EPA	Recurring			Ongoing		Medium	
15/07/2014	Trigger level reached	Licensed discharge point (typ	1. Minor	Air	Other (add details	Landfill gas trigger level exceeded for CH4 at GP monitoring point - GP 18	Normal activities	EPA	Recurring			Ongoing		Medium	
21/07/2014	Trigger level reached	Other location (please specify	1. Minor	Air	Not related to site	Exceedance in dust monitoring with 416.8 mg/m recorded at DM-07	Normal activities	EPA	New	Result is not related to site activities and occurred due to peat harvesting undertaken by BnM on the adjacent site during the monitoring period.	No actions possible, and incident only occurs when monitoring co-insides with harvesting. This is weather related so varies each year.	Complete		Low	
19/08/2014	Trigger level reached	Licensed discharge point (typ	1. Minor	Air	Other (add details	Landfill gas trigger level exceeded for CH4 at GP monitoring point - GP 18	Normal activities	EPA	Recurring			Ongoing		Medium	
10/09/2014	Trigger level reached	Licensed discharge point (typ	1. Minor	Air	Other (add details	Landfill gas trigger level exceeded for CH4 at GP monitoring point - GP 18	Normal activities	EPA	Recurring			Ongoing		Medium	
01/10/2014	Trigger level reached	Licensed discharge point (typ	1. Minor	Water	Other (add details	EPA monitoring results for SW7 for TSS and COD.	Normal activities	EPA	New	A review of Q1,2 & 3 for 2014 at SW7 highlighted no exceedances - SW7 is adjacent to a stockpile of peat on the adjacent BnM site which is the likely source - further monitoring on 12/12/14 for Q4 showed results within licensed parameters.		Complete		Low	
11/11/2014	Trigger level reached	Licensed discharge point (typ	1. Minor	Air	Other (add details	Landfill gas trigger level exceeded for CH4 at GP monitoring point - GP 18	Normal activities	EPA	Recurring			Ongoing		Medium	
12/12/2014	Trigger level reached	Licensed discharge point (typ	1. Minor	Air	Other (add details	Landfill gas trigger level exceeded for CH4 at GP monitoring point - GP 1	Normal activities	EPA	Recurring			Ongoing - works ongoing in relation to GP18 - see correspondence on Eden		Medium	
Total number of incidents current year		14													
Total number of incidents previous year		10													
% reduction/increase															

WASTE SUMMARY	Lic No: W0029-04	Year 2014
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Table 4 Environmental monitoring-landfill only [Landfill Manual-Monitoring Standards](#)

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

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

Table 5 Capping-Landfill only

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

*please note this includes daily cover area

Table 6 Leachate-Landfill only

9 Is leachate from your site treated in a Waste Water Treatment Plant?

Yes
No

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

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

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
1167 m3 of CH4	0	N/A	Yes	Voc survey showed capping is effective

Comments on liner type



[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.18

REFERENCE YEAR	2014
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1. FACILITY IDENTIFICATION

Parent Company Name	Offaly County Council
Facility Name	Derryclure Landfill
PRTR Identification Number	W0029
Licence Number	W0029-04

Classes of Activity	
No.	class name
	Refer to PRTR class activities below

Address 1	Derryclure and Killeigh
Address 2	Tullamore
Address 3	
Address 4	
	Offaly
Country	Ireland
Coordinates of Location	-6.25685 53.5597
River Basin District	IEGBNISH
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Marian Healy
AER Returns Contact Email Address	mhealy@offalycoco.ie
AER Returns Contact Position	Executive Scientist
AER Returns Contact Telephone Number	05 79357403
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	2
User Feedback/Comments	
Web Address	

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 ?	
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) ?	No
--	----

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

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR#: W0029 | Facility Name : Derryclare Landfill | Filename : W0029_2014.xls | Return Year : 2014 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
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
01	Methane (CH4)	C	OTH	Final cap completed in 2012 - No incidents or complaints relating to odour. No fugitive or accidental emission to report and VOC survey confirms this.	0.0	0.0	0.0	0.0
03	Carbon dioxide (CO2)	C	OTH	Final cap completed in 2012 - No incidents or complaints relating to odour. No fugitive or accidental emission to report and VOC survey confirms this.	0.0	0.0	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
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)

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
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: Please enter summary data on the quantities of methane flared and / or utilised	Derryclare Landfill				Facility Total Capacity m3 per hour
	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	
Total estimated methane generation (as per site model)	1167345.0	E	Flare Data used	E-mail of 23Oct2014 to AER Returns highlights Landgem data does not reflect site activities - therefore measured data used.	N/A
Methane flared	1167345.0	M	Flare Data	Actual data from Flare on site	1000.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0			No engines on site	0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0029 | Facility Name : Derryclure Landfill | Filename : W0029_2014.xls | Return Year : 2014 |

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Please enter all quantities on this sheet in Tonnes

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Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	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					
Within the Country	08 03 18	No	0.0	waste printing toner other than those mentioned in 08 03 17	R5	M	Weighed	Offsite in Ireland				
Within the Country	13 02 08	Yes	2.76	other engine, gear and lubricating oils	D9	M	Weighed	Offsite in Ireland	Rialta Environmental,W0192-03	B402 Grants Drive,Greenogue Business Park,Rathcoole,Co. Dublin,Ireland	Rialta Environmental,W0192-03,B402 ,Grants Drive,Greenogue Business Park,Rathcoole Co. Dublin ,Ireland	B402 ,Grants Drive,Greenogue Business Park,Rathcoole Co. Dublin ,Ireland
Within the Country	15 01 02	No	55.76	plastic packaging	R3	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,W0263-01	Road,Walkinstown,Dublin 12,0,Ireland	Merrywell Ind Estate,Ballymount Road Lower,Clondalkin,Dublin 22,Ireland	
Within the Country	15 01 02	No	0.0	plastic packaging	R3	M	Weighed	Offsite in Ireland	Oxigen Environmental Linited,WL 208-02	Road,Walkinstown,Dublin 12,0,Ireland	Ballymount	
Within the Country	15 01 04	No	8.0	metallic packaging	R4	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,W0263-01	Road,Walkinstown,Dublin 12,0,Ireland	Ballymount	
Within the Country	15 01 04	No	10.24	metallic packaging	R4	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,W0263-01	Road,Walkinstown,Dublin 12,0,Ireland	Unit 4 ,Osberstown Ind	
Within the Country	15 01 07	No	43.66	glass packaging	R5	M	Weighed	Offsite in Ireland	Rehab Glassco Ltd,WFP-KE-08-0957-01	Park,Naas,Co. Kildare,Ireland		
Within the Country	16 01 03	No	7.66	end-of-life tyres	R5	M	Weighed	Offsite in Ireland	Crumb Rubber Ireland Ltd,WFP-LH-10-0005-01	Mooretown,Dromiskin ,Dundalk,Co. Louth ,Ireland		
To Other Countries	16 06 01	Yes	1.61	lead batteries	R4	M	Weighed	Abroad	KMK Metals Ltd,WL 184-01	Offaly,,Ireland	H.J. Enthoven Ltd,Lix # BL 5598,Darley Dale Smelter,South Darley,Matlock Derbyshire,DE4 2LP,United Kingdom	Darley Dale Smelter,South Darley,Matlock Derbyshire,DE4 2LP,United Kingdom
Within the Country	16 06 02	Yes	1.057	Ni-Cd batteries	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,WL 184-01	Offaly,,Ireland	H.J. Enthoven Ltd,Lix # BL 5598,Darley Dale Smelter,South Darley,Matlock Derbyshire,DE4 2LP,United Kingdom	Darley Dale Smelter,South Darley,Matlock Derbyshire,DE4 2LP,United Kingdom
Within the Country	16 06 05	No	0.374	other batteries and accumulators mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,WL 184-01	Offaly,,Ireland		
Within the Country	17 01 07	No	143.08	gypsum-based construction materials other than those mentioned in 17 08 01	R5	M	Weighed	Offsite in Ireland	Oxigen Environmental Ltd,WFP-10-OY-0183-02	Banan,Daingean,Co. Offaly,,Ireland		
Within the Country	17 08 02	No	16.88	landfill leachate other than those mentioned in 19 07 02	R3	M	Weighed	Offsite in Ireland	Callan Recycling ,WFP-KE-09-0355-01	Rathangan,Co. Kildare,0,0,Ireland		
Within the Country	19 07 03	No	16797.0	landfill leachate other than those mentioned in 19 07 02	D9	M	Weighed	Offsite in Ireland	Tullamore Waste water Treatment Plant,D0039-01	Kilcuttin,Tullamore ,Co. Offaly,,Ireland		
Within the Country	20 01 01	No	103.97	paper and cardboard	R3	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,W0263-01	Road,Walkinstown,Dublin 12,0,Ireland		
Within the Country	17 02 02	No	17.08	glass	R5	M	Weighed	Offsite in Ireland	Gannon Eco,WFP-WM-2009-0007-01	Ballinagore,Co. Westmeath ,,,Ireland		
Within the Country	20 01 08	No	0.33	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Acorn Recycling ,W0249-01	Archerstown Ind Estate,Thurles,Co. Tipperary,,Ireland		

Within the Country	20 01 10	No	89.8 clothes	R5	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,N/A	504 A Grants Drive,Greenogue Business Park,Greenogue Ind Estate,Dublin 24,Ireland		
Within the Country	20 01 21	Yes	0.371 fluorescent tubes and other mercury-containing waste	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,WL 184-01	Cappincur Road,Tullamore,Co. Offaly,..,Ireland	KMK Metals Ltd,WL 113,Cappincur Road,Tullamore,Co. Offaly,..,Ireland Recycfuel SA ,No. DPA D3200/61080/RGPED/2008/2/AP-PU,Zoning Industrial d'Ehein,B-4480 Engis,..,Belgium	Cappincur Road,Tullamore,Co. Offaly,..,Ireland
To Other Countries	20 01 27	Yes	8.92 paint, inks, adhesives and resins containing dangerous substances	D10	M	Weighed	Abroad	Sillot Hill Transfer Station,W0014-01	Sillot Hill Transfer Station,Kilcullen,Co. Kildare,..,Ireland	Zoning Industrial d'Ehein,B-4480 Engis,..,Belgium	Zoning Industrial d'Ehein,B-4480 Engis,..,Belgium
Within the Country	20 01 38	No	120.92 wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Oxigen Environmental Ltd,WFP-10-OY-0183-02	Offaly,..,Ireland		
Within the Country	20 01 38	No	12.1 wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Oxigen Environmental Ltd,WFP-10-OY-0183-02	Offaly,..,Ireland		
Within the Country	20 01 39	No	0.32 Polystyrene	R3	M	Weighed	Offsite in Ireland	Oxigen Environmental Ltd,WFP-10-OY-0183-02	Offaly,..,Ireland		
Within the Country	20 01 40	No	55.94 metals	R4	M	Weighed	Offsite in Ireland	Multi Metals,WFP-WW-09-0014-01	Conway Port Industrial Estate,Bollorney,Murrough, Wicklow,Ireland		
Within the Country	20 02 01	No	51.86 biodegradable waste	R3	M	Weighed	Offsite in Ireland	Enrich Environmental,WFP-MH-08-004-02	Larch Hill,Kilcock,Co. Meath,..,Ireland		
Within the Country	20 03 01	No	2967.7 mixed municipal waste	R5	M	Weighed	Offsite in Ireland	Oxigen Environmental Ltd,WL 152-03	Robinhood Industrial Estate,Robinhood Road,Dublin,22,Ireland		
Within the Country	20 03 01	No	182.28 mixed municipal waste	R5	M	Weighed	Offsite in Ireland	Oxigen Environmental Ltd,WL 152-03	Robinhood Industrial Estate,Robinhood Road,Dublin,22,Ireland		
Within the Country	15 01 02	No	7.88 plastic packaging	R3	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,W0263-01	Ballymount Road,Walkinstown,Dublin 12,0,Ireland		
Within the Country	15 01 01	No	74.07 paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,W0263-01	Ballymount Road,Walkinstown,Dublin 12,0,Ireland		
Within the Country	20 02 01	No	172.6 biodegradable waste	R3	M	Weighed	Offsite in Ireland	Enrich Environmental,WFP-MH-08-004-02	Larch Hill,Kilcock,Co. Meath,..,Ireland		
Within the Country	20 03 07	No	118.54 bulky waste	D1	M	Weighed	Offsite in Ireland	AES Drehid,W0201-03	Killnagh Yupper,Carbury,Co. Kildare,0,Ireland		
Within the Country	20 01 25	No	0.18 edible oil and fat	R3	M	Weighed	Offsite in Ireland	MT Oils ,WP 98/119	Newmarket ,Dublin 8,0,0,Ireland		
Within the Country	20 01 40	No	11.18 metals	R4	M	Weighed	Offsite in Ireland	Multi Metals,WFP-WW-09-0014-01	Conway Port Industrial Estate,Bollorney,Murrough, Wicklow,Ireland		
Within the Country	16 01 03	No	2.25 end-of-life tyres	R5	M	Weighed	Offsite in Ireland	Crumb Rubber Ireland Ltd,WFP-LH-10-0005-01	Mooretown,Dromiskin ,Dundalk,Co. Louth ,Ireland		

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

* Select a row by double-clicking on the Pollutant Name (Column B)

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS	
POLLUTANT	
No. Annex II	Name

* Select a row by double-clicking on the Pollutant Name (Column B)

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

RELEASES TO WATERS	
POLLUTANT	
Pollutant No.	Name

* Select a row by double-clicking on the Pollutant Name (Column B)

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be entered in this section.

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

Please enter all quantities in this section in KGs				
M/C/E	Method Used		Emission Point 1	T (Total) KG/Year
	Method Code	Designation or Description		
			0.0	0.0

) then click the delete button

OT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

QUANTITY	
A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0029 | Facility Name : Derryclure Landfill | Filename : W0029_2014.xls | Return Year : 2

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SECTION A : PRTR POLLUTANTS

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

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

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

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

* Select a row by double-clicking on the Pollutant Name (Column B)

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

RELEASES TO LAND	
POLLUTANT	
Pollutant No.	Name

* Select a row by double-clicking on the Pollutant Name (Column B)

METHOD			Please enter all quantities
M/C/E	Method Used		Emission Point 1
	Method Code	Designation or Description	
			0.0

) then click the delete button

METHOD			Please enter all quantities
M/C/E	Method Used		Emission Point 1
	Method Code	Designation or Description	
			0.0

) then click the delete button

in this section in KGs	
QUANTITY	
T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0

in this section in KGs	
QUANTITY	
T (Total) KG/Year	A (Accidental) KG/Year
0.0	0.0