

Facility Information Summary

Licence Register Number
 Name of site
 Site Location
 NACE Code
 Class of Activity
 RBME risk category
 National Grid Reference (6E, 6 N)

W0060-03
Whiteriver Landfill Site
Gunstown Townland Dunleer, Co Louth
3821
Class 1,4,5,6,7,12,13 - Class 2,4,9,10,13
A1
O301450E 285625N

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;

Louth County Council holds a Waste Licence from the Environmental Protection Agency to operate Whiteriver landfill Site. There are two enclosed landfill gas flares in operation at the site for the flaring of landfill gas and a leachate lagoon for the treatment of leachate. There were no infrastructural changes during the reporting year. The acceptance of incinerator bottom ash commenced on the 14th November 2011. Objectives, targets and timescales for the year 2011 for Whiteriver Landfill Site have been completed, or are ongoing, as part of the ISO14001 Environmental Management System. These were as follows:

- Reduce pressure on non-renewable fossil fuels used to generate electricity.
- Reduce BMW to landfill.
- Minimise the release of landfill gases

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.

Damien Holmes	16/04/2012
Signature	Date
Group/Facility manager	
<small>(or nominated, suitably qualified and experienced deputy)</small>	

AER summary template-AIR emissions

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 only need to complete table 1 fugitive emissions on site below

Additional information	
Yes	

Table 1 Fugitive emissions

Parameter /Substance	Annual fugitive emission (kg/annum)	Quantificaton method M/C/E
Methane (CH4)	24580	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

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](#)

No	
Yes	Not using the basic air monitoring checklist. Monitoring was undertaken prior to issue of basic air monitoring checklist

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
Flare 1	Nitrogen oxides (NOx/NO2)	07/12/2011	150 mg/Nm3	100 % of values < ELV	22.55	mg/Nm3	yes	OTH	788.4	NA	
	Carbon monoxide (CO)	07/12/2011	50 mg/Nm3	100 % of values < ELV	2.5	mg/Nm3	yes	OTH	87.6	NA	
	Total Organic Carbon (as C)	07/12/2011	10 mg/Nm3	100 % of values < ELV	3.36	mg/Nm3	yes	OTH	87.6	NA	
	Chlorine and inorganic compounds (as HCl)	07/12/2011	50mg/Nm3	100 % of values < ELV	0.03	mg/Nm3	yes	OTH	0.876	NA	
	Fluorine and inorganic compounds (as HF)	07/12/2011	5mg/Nm3	100 % of values < ELV	0.05	mg/Nm3	yes	OTH	1.752	NA	
	volumetric flow	07/12/2011		100 % of values < ELV	1611	m3	yes	OTH			Normalised average exhaust airflow rate (Nm3)
Flare 2	Nitrogen oxides (NOx/NO2)	07/12/2011	150 mg/Nm3	100 % of values < ELV	38.95	mg/Nm3	yes	OTH	5869.2	NA	
	Carbon monoxide (CO)	07/12/2011	50 mg/Nm3	100 % of values < ELV	1.25	mg/Nm3	yes	OTH	17.52	NA	
	Total Organic Carbon (as C)	07/12/2011	10 mg/Nm3	100 % of values < ELV	2.08	mg/Nm3	yes	OTH	26.28	NA	

	Chlorine and inorganic compounds (as HCl)	07/12/2011	50mg/Nm3	100 % of values < ELV	0.02	mg/Nm3	yes	OTH	0.876	NA	
	Fluorine and inorganic compounds (as HF)	07/12/2011	5mg/Nm3	100 % of values < ELV	0.22	mg/Nm3	yes	OTH	1.752	NA	
	Sulphur oxides (SOx/SO2)	07/12/2011		100 % of values < ELV	669.75	mg/Nm3	yes	OTH	10074	NA	
	volumetric flow	07/12/2011		100 % of values < ELV	673	m3	yes	OTH			normalised average exhaust airflow rate (Nm3
	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? Yes

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 Yes

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

7 Did your site experience any abatement system bypasses? If yes please detail them in table 4 below No

Table 3: 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)	% compliance current reporting year	Comments
Flare 1	Carbon monoxide (CO)	50 mg/Nm3		97 % of all annual 30-minute averages < 1.2 x ELV	ppm					Monitored as PPM on flare therefore results not directly comparable to the licence limit of 50mg/m3 corrected for oxygen and temp. Proposed to rectify this to facilitate direct comparison for 2012 AER.
Flare 2	Carbon monoxide (CO)	50 mg/Nm3		97 % of all annual 30-minute averages < 1.2 x ELV	ppm					Monitored as PPM on flare therefore results not directly comparable to the licence limit of 50mg/m3 corrected for oxygen and temp. Proposed to rectify this to facilitate direct comparison for 2012 AER.

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

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

SELECT	
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Table 5: Solvent Management Plan Summary		Please refer to linked solvent regulations to complete table 5 and 6			
Total VOC Emission limit value			Solvent regulations		
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	
					SELECT
					SELECT

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

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	
SELECT	

Table 1 Ambient monitoring

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

*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

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	<p>Supplies which exceeded the limit of 250mg/l throughout the year.</p> <ul style="list-style-type: none"> • BOD 15,020 mg/l in April and July • COD 5,850 mg/l in April and July
SELECT	Not using external lab and assessment of results checklist. Monitoring was undertaken prior to issue of checklists. This will be undertaken for 2012.

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 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)	% change in mass load from previous year +/-	Comments
Treated Leachate	Wastewater/Sewer	BOD	discrete		Quarterly	500	All results < 1.2 x ELV	5189	mg/L	no (if no please	red Oxygen Meter (Ele	I.S. (Irish Standard)	ISO 5667-3:2003	145.85	98	Leachate is
		COD	discrete		Quarterly	1500	All results < 1.2 x ELV	3007	mg/L	no (if no please	rophotometry (Colorin	I.S. (Irish Standard)	ISO 5667-3:2003	84.52	79	Leachate is
		Ammonia (as N)	discrete		Quarterly	900	All results < 1.2 x ELV	398.95	mg/L	yes	to-analyser using phe	I.S. (Irish Standard)	ISO 5667-3:2003	11.21	32	Leachate is
		Sulphate	discrete		Quarterly	250	All results < 1.2 x ELV	343	mg/L	no (if no please	Ion Chromatography	I.S. (Irish Standard)	ISO 5667-3:2003	9.64	24	Leachate is
		pH	discrete		Quarterly	6.0-9.0	All results < 1.2 x ELV		pH units	yes	pH Meter (Electrode)	I.S. (Irish Standard)	ISO 5667-3:2003			Leachate is
		volumetric flow				70m3 daily		28107.78	m3/year		Weighed					Leachate is
		Temperature	discrete		Quarterly	25	All results < 1.2 x ELV		degrees C	yes		I.S. (Irish Standard)	ISO 5667-3:2003			Leachate is
Surface Water	Water	Suspended Solids	discrete		Quarterly	50	All results < 1.2 x ELV	15	mg/L	yes	Gravimetric analysis	I.S. (Irish Standard)	ISO 5667-3:2003			Leachate is

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

SELECT	
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8 Did abatement system bypass occur during the reporting year? If yes please complete table 5 below

SELECT	
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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

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

Yes	
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Table 1 Complaints summary							
Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
Jan-11	Odour		16 Complaints in Jan		Complete		
Feb-11	Odour		12 Complaints in Feb		Complete		
Mar-11	Odour		21 Complaints in March	Temporary Capping	Complete	Apr-11	
Apr-11	Odour		5 Complaints in April		Complete		
May-11	Odour		2 Complaints in May		Complete		
Jun-11	Odour		2 Complaints in June		Complete		
Jul-11	Odour		0 Complaints in July		Ongoing		
Aug-11	Odour		1 Complaint in August		Ongoing		
Sep-11	Odour		3 Complaints in Sept		Complete		
Oct-11	Odour		21 Complaints in Oct		Complete		
Nov-11	Odour		39 Complaints in Nov	10000m2 Temp Capping	Complete	25/11/2011	
Dec-11	Odour		0 Complaints in Dec		Complete		
Total complaints open at start of reporting year		0					
Total new complaints received during reporting year		122					
Total complaints closed during reporting year		122					
Balance of complaints end of reporting year		0					

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

SELECT	
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*For information on how to report and what constitutes an incident	What is an incident
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Table 2 Incidents summary														
Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of reoccurrence
Jan-11	Trigger level reached	Perimeter gas monitoring	1. Minor	Ground	Believed to be natural CO2		Normal activities	EPA	Recurring	Ongoing monitoring	N/A	Ongoing	N/A	High
Feb-11	Trigger level reached	Perimeter gas monitoring	1. Minor	Ground	Believed to be natural CO2		Normal activities	EPA	Recurring	Ongoing monitoring	N/A	Ongoing	N/A	High
Mar-11	Trigger level reached	Perimeter gas monitoring	1. Minor	Ground	Believed to be natural CO2		Normal activities	EPA	Recurring	Ongoing monitoring	N/A	Ongoing	N/A	High
Apr-11	Trigger level reached	Perimeter gas monitoring	1. Minor	Ground	Believed to be natural CO2		Normal activities	EPA	Recurring	Ongoing monitoring	N/A	Ongoing	N/A	High
May-11	Trigger level reached	Perimeter gas monitoring	1. Minor	Ground	Believed to be natural CO2		Normal activities	EPA	Recurring	Ongoing monitoring	N/A	Ongoing	N/A	High
Jun-11	Trigger level reached	Perimeter gas monitoring	1. Minor	Ground	Believed to be natural CO2		Normal activities	EPA	Recurring	Ongoing monitoring	N/A	Ongoing	N/A	High
Jul-11	Trigger level reached	Perimeter gas monitoring	1. Minor	Ground	Believed to be natural CO2		Normal activities	EPA	Recurring	Ongoing monitoring	N/A	Ongoing	N/A	High
Aug-11	Trigger level reached	Perimeter gas monitoring	1. Minor	Ground	Believed to be natural CO2		Normal activities	EPA	Recurring	Ongoing monitoring	N/A	Ongoing	N/A	High
Sep-11	Trigger level reached	Perimeter gas monitoring	1. Minor	Ground	Believed to be natural CO2		Normal activities	EPA	Recurring	Ongoing monitoring	N/A	Ongoing	N/A	High
Oct-11	Trigger level reached	Perimeter gas monitoring	1. Minor	Ground	Believed to be natural CO2		Normal activities	EPA	Recurring	Ongoing monitoring	N/A	Ongoing	N/A	High
Nov-11	Trigger level reached	Perimeter gas monitoring	1. Minor	Ground	Believed to be natural CO2		Normal activities	EPA	Recurring	Ongoing monitoring	N/A	Ongoing	N/A	High
Dec-11	Trigger level reached	Perimeter gas monitoring	1. Minor	Ground	Believed to be natural CO2		Normal activities	EPA	Recurring	Ongoing monitoring	N/A	Ongoing	N/A	High
Oct-11	Trigger level reached	DG2 Dust monitoring point	1. Minor	Air	Dust		Normal activities	EPA	New	Ongoing monitoring	N/A	Ongoing	N/A	Medium

Total number of incidents current year	13
Total number of incidents previous year	13
% reduction/increase	0

Groundwater /Contaminated land summary report

- 1 Are you required to carry out groundwater monitoring as part of your licence requirements?
- 2 Are you required to carry out soil monitoring as part of your licence requirements?
- 3 Do you extract groundwater for use on site? If yes please specify use in comment section
- 4 Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12
- 5 Is the contamination related to operations at the facility (either current and/or historic)
- 6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site
- 7 Please specify the proposed time frame for the remediation strategy
- 8 Is there a licence condition to carry out/update ELRA for the site?
- 9 Has any type of risk assesment been carried out for the site?
- 10 Has a Conceptual Site Model been developed for the site?
- 11 Have potential receptors been identified on and off site?
- 12 Is there evidence that contamination is migrating offsite?

Comments	
yes	
no	
no	
no	
no	
no	
no	
no	
no	
no	
no	
no	

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	IGV	% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
2011	BH2A	Alkalinity	ICP-MS	Annual	228		mg/l		No abnormal change		data not available
		Ammonia	using phenate method	Quarterly	0.03	0.03	mg/l	0.175	0.15	-33	data not available
		Boron	ICP-MS	Annual	15.3		ug/l		1		data not available
		Calcium	ICP-MS	Annual	69.74		mg/l		200		
		Chloride	using ferricyanide method	Quarterly	16	15.75	mg/l	187.5	30	-5	data not available
		Conductivity	Conductivity Meter	Quarterly	657	626	us/cm	1875	1000	4	data not available
		Copper	ICP-MS	Annual	1.5		ug/l	1500	0.03		
		DO	Dissolved Oxygen Meter	Quarterly	43	34.75	mg/l		No abnormal ch	6	data not available
		Magnesium	ICP-MS	Annual	34.16		mg/l		50		data not available
		Manganese	ICP-MS	Annual	2.9		ug/l		0.05		data not available
		Ph	pH Meter	Quarterly	7.7	7.5			9.5	1	data not available
		Potassium	ICP-MS	Annual	1.13		mg/l		5		data not available
		Residual on evaporation		Annual	322		mg/l				data not available
		Sodium	ICP-MS	Annual	21.1		mg/l	150	150		data not available
		Sulphate		Annual	4.8		mg/l		200		data not available
		Bacteria/Coliform		Annual	20		counts per 100ml		0 counts per 100ml		data not available
		TOC	TOC Analyser using high temperature combustion method	Quarterly	4.2		mg/l		No abnormal ch	50	data not available
		TON	ICP-MS	Annual	0.46		mg/l				data not available
		Zinc	ICP-MS	Annual	4.9		ug/l		0.1		data not available

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	IGV	% change in average concentration previous year +/-	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
2011	BH5A	Alkalinity	ICP-MS	Annual	192		mg/l		No abnormal change		data not available
		Ammonia	Aquakem Auto-analyser	Quarterly	0.03	0.03	mg/l	0.175	0.15	0	data not available
		Boron	ICP-MS	Annual	21.5		ug/l		1		data not available
		Calcium	ICP-MS	Annual	87.15		mg/l		200		data not available
		Chloride	Aquakem Auto-analyser	Quarterly	57	47.67	mg/l	187.5	30	6	data not available
		Chromium	ICP-MS	Annual	0.6		ug/l				data not available
		Conductivity	Conductivity Meter	Quarterly	666	647.33	us/cm	1875	1000	5	data not available
		Copper	ICP-MS	Annual	1.3		ug/l	1500	0.03		data not available
		DO	Dissolved Oxygen Meter	Quarterly	54	48	mg/l		No abnormal ch	-59	data not available
		Fluoride	ICP-MS	Annual	0.19		mg/l				data not available
		Iron	ICP-MS	Annual	312		ug/l				data not available
		Magnesium	ICP-MS	Annual	12.9		mg/l		50		data not available
		Manganese	ICP-MS	Annual	12.3		ug/l		0.05		data not available
		Ph	pH Meter	Quarterly	7.8	7.7			≥ 6.5 and ≤ 9.5	-1	data not available
		Potassium	ICP-MS	Annual	1.31		mg/l		5		data not available
		Residual on evaporation		Annual	456		mg/l				data not available
		Sodium	ICP-MS	Annual	29.31		mg/l	150	150		data not available
		Sulphate		Annual	42		mg/l		200		data not available
		Bacteria/Coliform		Annual	0		counts per 100ml		0 counts per 100ml		data not available
		TOC	temperature combustion	Quarterly	11.5	6.07	mg/l		No abnormal ch	26	data not available
		TON	ICP-MS	Annual	0.08		mg/l				data not available
		Zinc	ICP-MS	Annual	4.2		ug/l		0.1		data not available
2011	BH9	Alkalinity	ICP-MS	Annual	408		mg/l		No abnormal change		data not available
		Ammonia	Aquakem Auto-analyser using phenate method	Quarterly	0.03	0.03	mg/l	0.175	0.15	0	data not available
		Boron	ICP-MS	Annual	37.3		ug/l		1		data not available
		Calcium	ICP-MS	Annual	148.74		mg/l		200		data not available
		Chloride	Aquakem Auto-analyser using ferricyanide method	Quarterly	19	16.67	mg/l	187.5	30	-2	data not available
		Chromium	ICP-MS	Annual	1.8		ug/l				data not available
		Conductivity	Conductivity Meter	Quarterly	891	740.67	us/cm	1875	1000	-25	data not available
		Copper	ICP-MS	Annual	1		ug/l	1500	0.03		data not available
		DO	Dissolved Oxygen Meter	Quarterly	67	52	mg/l		No abnormal ch	-18	data not available
		Iron	ICP-MS	Annual	1116.4		ug/l				data not available
		Lead	ICP-MS	Annual	1.1		ug/l				data not available
		Magnesium	ICP-MS	Annual	27.48		mg/l		50		data not available
		Manganese	ICP-MS	Annual	199.3		ug/l		0.05		data not available
		Nickel	ICP-MS	Annual	2						data not available
		Ph	pH Meter	Quarterly	7.5	7.33			≥ 6.5 and ≤ 9.5	4	data not available
		Potassium	ICP-MS	Annual	3.39		mg/l		5		data not available
		Residual on evaporation		Annual	754		mg/l				data not available
		Sodium	ICP-MS	Annual	23.78		mg/l	150	150		data not available

		Sulphate		Annual	35.5		mg/l		200		data not available
		Total Bacteria/Coliform		Annual	0		counts per 100ml		0 counts per 100ml		data not available
		TOC	TOC Analyser using high temperature combustion method	Quarterly	8.4	6.13	mg/l		No abnormal ch	4	data not available
		TON	ICP-MS	Annual	0.08		mg/l				data not available
		Zinc	ICP-MS	Annual	3.5		ug/l		0.1		data not available
2011	BH14	Alkalinity	ICP-MS	Annual	352		mg/l		No abnormal change		data not available
		Ammonia	Aquakem Auto-analyser using phenate method	Quarterly	0.03	0.03	mg/l	0.175	0.15	-400	data not available
		Boron	ICP-MS	Annual	29.7		ug/l		1		data not available
		Calcium	ICP-MS	Annual	81.99		mg/l		200		data not available
		Chloride	Aquakem Auto-analyser using ferricyanide method	Quarterly	20	17.33	mg/l	187.5	30	5	data not available
		Chromium	ICP-MS	Annual	2.7		ug/l				data not available
		Conductivity	Conductivity Meter	Quarterly	725	669	us/cm	1875	1000	5	data not available
		Copper	ICP-MS	Annual	<0.05		ug/l	1500	0.03		data not available
		DO	Dissolved Oxygen Meter	Quarterly	66	54	mg/l		No abnormal ch	4	data not available
		Iron	ICP-MS	Annual	2070		ug/l				data not available
		Lead	ICP-MS	Annual	1.5		ug/l				data not available
		Magnesium	ICP-MS	Annual	26		mg/l		50		data not available
		Manganese	ICP-MS	Annual	111.3		ug/l		0.05		data not available
		Nickel	ICP-MS	Annual	1.6						data not available
		Ph	pH Meter	Quarterly	7.5	7.47			≥ 6.5 and ≤ 9.5	1	data not available
		Potassium	ICP-MS	Annual	1.53		mg/l		5		data not available
		Residual on evaporation		Annual	565		mg/l				data not available
		Sodium	ICP-MS	Annual	22.69		mg/l	150	150		data not available
		Sulphate		Annual	8.6		mg/l		200		data not available
		Total Bacteria/Coliform		Annual	0		counts per 100ml		0 counts per 100ml		data not available
		TOC	TOC Analyser using high temperature combustion method	Quarterly	3.6	2.95	mg/l		No abnormal ch	46	data not available
		TON	ICP-MS	Annual	<0.08		mg/l				data not available
		Zinc	ICP-MS	Annual	4.8		ug/l		0.1		data not available

* 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

Data will be compiled for upward trend in yearly average pollutant concentration over 5 years of monitoring data for 2012 reporting period for groundwater. Groundwater results are below the GTV for those parameters comparable. Down-gradient boreholes BH9 and BH14 exceed the IGTV and DWR of 50µg/l for Manganese and the IGTV of 0.2mg/l and the DWR of 200µg/l for Iron.

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 ISO14001 Environmental Management System
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Energy Efficiency/Utility conservation	Devise strategy to utilise land	50	Tender documents being prep	Section Head	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Reduce BMW to landfill	100	Ceased accepting untreated w	Section Head	Increased compliance with licence conditions
Reduction of emissions to Air	Progressively cap Phase 5	50	50% of phase 5 either tempora	Section Head	Less complaints

Noise Monitoring Report Summary

- 1 Was noise monitoring a licence requirement for the AER period? Yes
 If yes please fill in table 1 noise summary below
- 2 Was noise monitoring carried out using the EPA Guidance note including completion of the "Checklist for noise measurement report" included in the guidance note as table 6? No [Draft Noise Guidance](#)
- 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)?
31/01/2012	30 minutes	N1		62	45	59		Yes	No	main noise road traffic	No
31/01/2012	30 minutes	N2		52	37	47		No	No		Yes
31/01/2012	30 minutes	N3		69	40	64		No	No	main noise road traffic a	No
31/01/2012	30 minutes	N4		75	41	77		No	No	main noise road traffic a	No
31/01/2012	30 minutes	N5		51	43	54		Yes	No		Yes
31/01/2012	30 minutes	N6		67	45	68		Yes	No	main noise sources on si	No
31/01/2012	30 minutes	N1		45	44	44		No	No	No noise audible	Yes
31/01/2012	30 minutes	N2		47	37	37		No	No	No noise audible	No
31/01/2012	30 minutes	N3		63	57	57		No	No	No noise audible	No
31/01/2012	30 minutes	N4		62	56	56		No	No	No noise audible	No
31/01/2012	30 minutes	N5		41	41	41		No	No	No noise audible	Yes
31/01/2012	30 minutes	N6		42	44	44		No	No	No noise audible	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**

** please explain the reason for not taking action/resolution of noise issues? Noise is mainly attributable to off site sources. Noise complaints are not common for the site.

Monitoring was undertaken in accordance with EPA guidance but not monitoring checklist to completed.

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

2010	
no	
SELECT	N/A

Energy Use	Previous year kWh	Current year kWh	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total				
Electricity	184250	211800	13	
Fossil Fuels:				
Heavy Fuel Oil				
Light Fuel Oil	1796850	2138251	16	
Natural gas				
Coal/Solid fuel				
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

Water use	Previous year m3/yr.	Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Groundwater				
Surface water				
Public supply	Not available	Not available		
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

Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
Nov-10	Improve energy management within the site	develop a suitable energy policy action plan and monitoring & targeting programme.	energy audit		2 Ongoing			
	Introduce additional electricity sub-metering, analysis of Half Hour Consumption	sub-metering of separate loads will provide a detailed framework	energy audit		3 Ongoing			
	Improve the management of the aeration plant	aeration paddle motors are replaced with High Efficiency Motors (HEMs).	energy audit		3 Ongoing			
	Incorporate a High Efficiency Motor policy throughout the site	Use High efficiency motors	energy audit		3 Ongoing			
	Improve control of PC's & small electrical equipment within site office and canteen	small electrical equipment	energy audit		15 Ongoing			

SECTION A - WASTE TRANSFER: TO BE COMPLETED BY ALL OPC AND WASTE FACILITIES

SECTION B - WASTE ACCEPTED/INTENDED TO BE COMPLETED BY ALL OPC AND WASTE FACILITIES

Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility? **Waste generated within your facility is to be reported through PPR reporting.**

If you please enter details in Table 2 below:

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.

Were waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information.

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 PPR workbook)

Waste type (as per the Waste Catalogue)	Waste description	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste rejected in previous reporting year (tonnes)	Waste code (as per the Waste Catalogue)	Waste origin (as per the Waste Catalogue)	Waste treatment, recovery or disposal 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
07 02 04*	07 - WASTES FROM ORGANIC CHEMICAL PROCESSES	22	22	07 02 04	Other organic solvents, including waste and residues	05 - REEFY		Brought onto site from other OPC plant
20 02 08	20 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	85	85	20 02 08	Household kitchen and cabinet waste	05 - REEFY		
15 02 09	15 - WASTE PACKAGING, ASSEMBLY, WIRING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	41.1	27	15 02 09	empty drum slugs	05 - REEFY		0
17 02 07	17 - CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONSTRUCTION SITES)	4684	7	17 02 07		05 - REEFY		05 - REEFY/Reclamation or other non-ferrous materials which includes soil reclamation resulting in recovery of the soil and recycling of inorganic construction materials
17 02 04	17 - CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONSTRUCTION SITES)	2873.24		17 02 04	bulk raw waste	05 - REEFY		05 - REEFY/Reclamation or other non-ferrous materials which includes soil reclamation resulting in recovery of the soil and recycling of inorganic construction materials
19 02 12	19 - WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	4684		19 02 12	incinerator bottom ash	05 - REEFY		05 - REEFY/Reclamation or other non-ferrous materials which includes soil reclamation resulting in recovery of the soil and recycling of inorganic construction materials
19 02 07	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	4.36		19 02 07	bulky waste	05 - REEFY		05 - REEFY/Reclamation or other non-ferrous materials which includes soil reclamation resulting in recovery of the soil and recycling of inorganic construction materials
19 02 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	1.10	1.10	19 02 01	organic sludge	05 - REEFY		05 - REEFY/Reclamation or other non-ferrous materials which includes soil reclamation resulting in recovery of the soil and recycling of inorganic construction materials
19 02 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	2308.4	208.4	19 02 01	water treatment sludge	05 - REEFY		05 - REEFY/Reclamation or other non-ferrous materials which includes soil reclamation resulting in recovery of the soil and recycling of inorganic construction materials
19 02 07	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	1736.81	813	19 02 07	solid sludge	05 - REEFY		05 - REEFY/Reclamation or other non-ferrous materials which includes soil reclamation resulting in recovery of the soil and recycling of inorganic construction materials
19 02 12	19 - WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	10212	60212	19 02 12	slag fines	05 - REEFY		05 - REEFY/Reclamation or other non-ferrous materials which includes soil reclamation resulting in recovery of the soil and recycling of inorganic construction materials
20 02 01	20 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	8542	8213	20 02 01	MSW	05 - REEFY		05 - REEFY/Reclamation or other non-ferrous materials which includes soil reclamation resulting in recovery of the soil and recycling of inorganic construction materials
20 02 01	20 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	2119	2119	20 02 01	mixed paper/waste	05 - REEFY		05 - REEFY/Reclamation or other non-ferrous materials which includes soil reclamation resulting in recovery of the soil and recycling of inorganic construction materials
20 02 07	20 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	268.1	80121	20 02 07	BULKY WASTE FROM HOUSEHOLD WASTE	05 - REEFY		05 - REEFY/Reclamation or other non-ferrous materials which includes soil reclamation resulting in recovery of the soil and recycling of inorganic construction materials

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.

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 onsite.

6. Does your facility have relevant insurance controls in place?

7. Do you have an odour management system in place for your facility? If no why?

8. Do you maintain a sludge register on site?

SELECT

SELECT

SELECT

SELECT

SELECT

SELECT

SECTION D - TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and storage/landfill only

Waste type permitted for disposal	Authorised/annual waste disposal limit (tonnes)	Actual waste for disposal in reporting year (tonnes)	Remaining licensed capacity at end of reporting year (tonnes)	Comments
Industrial waste	10,000	10,000	0	The licensed remaining capacity of this site is 0 tonnes.
Construction and demolition waste	20,000	6,282	13,718	It has been decided not to develop Phase 4 of the landfill. Landfilling will cease when Phase 5 is complete which is projected to be in mid 2013, with a date dependent.
Waste required for construction purposes	4,000	0	4,000	

Table 3 General information Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operation	Soil or new location	Proposed date to cease landfilling	License period extension	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposed area accepted in year	Total disposed area accepted by month	Total area	Comments on Area type
01	Feb-11	Ongoing	Yes	Public	Open/Reopened	Mid 2013	Yes	No	0	SELECT	SELECT	SELECT	

Table 4 Environmental monitoring landfill only

Was meteorological monitoring installed on the landfill?	Was Leachate (L2D) monitored in compliance with EU landfill Directive monitoring standards?	Was SW monitoring installed in compliance with EU landfill Directive monitoring standards?	Were CW (leachate) levels monitored in compliance with EU landfill Directive monitoring standards?	Was methane monitoring installed in compliance with EU landfill Directive monitoring standards?	Was the statement of work (SOW) of the WMA licence complied with reporting year?	Comments
Yes	Yes	Yes	Yes	Yes	Yes	

Table 5 Capping Landfill only

Area description	Area with temporary cap	Area with final cap to LD Standard	Area capped after	Area with waste that should be progressively capped to this water table	Other methods used to the cap	Comments
01	SELECT	SELECT	SELECT	SELECT	SELECT	

Table 6 Leachate Landfill only

Volume of leachate in reporting year (m ³)	Leachate (L2D) mass load (kg/tonnes)	Leachate (L2D) mass load (kg/tonnes)	Leachate (L2D) mass load (kg/tonnes)	Leachate (L2D) mass load (kg/tonnes)	Leachate treatment onsite	Waste type of leachate treatment	Comments
0	0	0	0	0	0	0	

Table 7 Landfill Gas Landfill only

Gas Capture/Flare	Flare gas (MW) (%)	Flare gas (MW) (%)	Flare gas (MW) (%)	Flare gas (MW) (%)	Flare gas (MW) (%)	Comments
01	401.12%	1%	0	0	0	



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[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.13

REFERENCE YEAR	2011
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1. FACILITY IDENTIFICATION

Parent Company Name	Louth County Council
Facility Name	Whiteriver Landfill Site
PRTR Identification Number	W0060
Licence Number	W0060-03

Waste or IPPC Classes of Activity

No.	class_name
3.5	Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.
3.1	Deposit on, in or under land (including landfill).
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
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.
3.4	Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.
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	Physico-chemical treatment not referred to elsewhere in this Schedule (including evaporation, drying and calcination) 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.
4.10	The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system.
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).
4.4	Recycling or reclamation of other inorganic materials.
4.9	Use of any waste principally as a fuel or other means to generate energy.

Address 1	Whiteriver & Gunstown Townland
Address 2	Dunleer
Address 3	Co Louth
Address 4	
	Louth
Country	Ireland
Coordinates of Location	-6.52774 53.6647
River Basin District	GBNIIENB
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Damien Holmes
AER Returns Contact Email Address	damien.holmes@louthcoco.ie
AER Returns Contact Position	Landfill Manager
AER Returns Contact Telephone Number	041 6851623
AER Returns Contact Mobile Phone Number	086 6097315
AER Returns Contact Fax Number	041 6851623
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	8760
Number of Employees	9
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 ?	No
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

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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 Used		Emission Point 1	Emission Point 2	Emission Point 3	QUANTITY		
			Method Code	Designation or Description				T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
03	Carbon dioxide (CO2)	C	OTH	Gassim Model		0.0	0.0	12500000.0	0.0	12500000.0
01	Methane (CH4)	C	OTH	Flared		0.0	0.0	24580.0	0.0	24580.0
55	1,1,1-trichloroethane	C	OTH	Gassim Model		0.0	0.0	59.4	0.0	59.4
04	Hydro-fluorocarbons (HFCs)	C	OTH	Gassim Model		0.0	0.0	46.9	0.0	46.9
						0.0	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 Used		Emission Point 1	Emission Point 2	Emission Point 3	QUANTITY			
			Method Code	Designation or Description				T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
15	Chlorofluorocarbons (CFCs)	C	OTH	Gassim Model		0.0	0.0	0.0	67.5	0.0	67.5

* 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 Used		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

Additional Data Requested from Landfill operators

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

Landfill: Please enter summary data on the quantities of methane flared and / or utilised	Whiteriver Landfill Site				
	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)	2672150.0	C	Gassim	Predicted from model	N/A
Methane flared	2647570.0	M	Measured from Flare	Reported in landfill gas	0.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	24580.0	C	Gassim - Measured	As previously reported	N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

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

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

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SECTION A : PRTR POLLUTANTS

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

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

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

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

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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

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SECTION A : PRTR POLLUTANTS

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

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

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

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR#: W0060 | Facility Name : Whiteriver Landfill Site | Filename : PRTR W0060_2011(1).xls | Return Year : 2011 |

03/05/2012 14:11

Please enter all quantities on this sheet in Tonnes

5

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 : 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)
						Haz Waste : Name and Licence/Permit No of Recover/Disposer			Non Haz Waste: Address of Recover/Disposer					
Within the Country	19 07 03	No	28107.78	landfill leachate other than those mentioned in 19 07 02	D9	M	Weighed	Offsite in Ireland	EPS ..		Marsh Road,Drogheda,Co. Louth,,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](#)