#### 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)

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;

W0033-01	
Drogheda Landfill Site	
Road, Mell, Drogheda, Co Louth	
3821	
2,3,4,10,11,13	
A2	
	Drogheda Landfill Site Road, Mell, Drogheda, Co Louth 3821 2,3,4,10,11,13

Drogheda landfill site is closed. The site ceased accepting waste for disposal since the waste licence was granted on 30th December 1999, however wastes where brought on site for restoration and capping following this date. The following restoration works where undertaken at the site during 2005-2007:

Installation of 55 No. gas extraction wells

Installation and commissioning of an active gas extraction flare and methane stripper

Installation of capping layers consisting of Gas Drainage Layer, LLDPE capping and Surface Water Drainage Layer (A total are: of approximately 101,650m2).

Reinforcement of the capping system using georgic on slopes greater than 1 in 2.5

Surface Water Drainage System

Construction of a 1.0m high safety bund along cliff edges on the site to improve safety.

Subsoil and topsoil have been placed above the capping layer to a depth of 850mm and 150mm respectively across the site

A Civic Waste Facily(CWF) is location on site, 2946.70 tonnes of waste were accepted for recycling at the CWF in 2011. No

#### 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.

Signature

Group/Facility manager (or nominated, suitably qualified and

experienced deputy)

18/4/12

Date

#### **AER summary template-AIR emissions**

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 There are no emission limits for flare in licence. Compared with typical emission limit values. Yes

#### **Table 1 Fugitive emissions**

2

Parameter /Substance	Annual fugitive emission (kg/annum)	Quantification method M/C/E
SELECT		SELECT
Methane (CH4)	180201	С

#### **Periodic/Non-Continuous Monitoring**

Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of Table 2 below

Was all monitoring carried out in accordance with EPA guidance note AG2 and using the monitoring basic air monitoring checklist?

checklist

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)

			ELV in licence							% change in mass load from	
Emission		Date of	or any revision			Unit of	Compliant with		Annual mass	previous year	
reference no:	Parameter/ Substance	Monitoring	therof	Licence Compliance criteria		measurement	licence limit	Method of analysis	load (kg)	+/-	Comments
					51.25						emission limits for
Flare Stack	Nitrogen oxides (NOx/NO2)	19/06/2011	None	100 % of values < ELV		mg/Nm3	yes	ОТН	175.2	NA	flare in licence.
					1.875						emission limits for
	Carbon monoxide (CO)	19/06/2011	None	100 % of values < ELV		mg/Nm3	yes	OTH	8.76	NA	flare in licence.
					3.02						emission limits for
	Total Organic Carbon (as C)	19/06/2011	None	100 % of values < ELV		mg/Nm3	yes	OTH	8.76	NA	flare in licence.
					1.98						emission limits for
	Chlorine and inorganic compounds (as HCI)	19/06/2011	None	100 % of values < ELV		mg/Nm3	yes	ОТН	8.76	NA	flare in licence.
					1.8						emission limits for
	Fluorine and inorganic compounds (as HF)	19/06/2011	None	100 % of values < ELV		mg/Nm3	yes	ОТН	8.76	NA	flare in licence.
					162.45						emission limits for
	Sulphur oxides (SOx/SO2)	19/06/2011	None	100 % of values < ELV		mg/Nm3		ОТН			flare in licence.
											emission limits for
	Carbon dioxide (CO2)	19/06/2011	None	100 % of values < ELV					420480		flare in licence.
											emission limits for
	volumetric flow	19/06/2011	None	100 % of values < ELV		m3	yes	OTH			flare in licence.

AGN2

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

Does your site carry out continuous air emissions monitoring?	Yes	Carbon Monoxide at Flare
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 Va (ELV)	lue	
Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below	No	
Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes	Service Agreement in place
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

**Continuous Monitoring** 

Emission reference no:	ELV in licence or any revision therof	Averaging Period	'	Units of measurement	Annual Emission		Equipment	% compliance current reporting year	Comments
Flare Stack	none in licence. Normally	Annual	not specified in licence	ppm	3.6 kg	3.4 ppm	None		No downtime on

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

<sup>\*</sup> this should include all dates that an abatement system bypass occurred

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

8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out table 5 SELECT Table 5: Solvent Management Plan Summary Total VOC Emission Please refer to linked solvent regulations to complete table 5 egulations and 6 limit value Reporting year Total solvent input on site (kg) Total VOC Total VOC Compliance emissions to Air emissions as from entire site %of solvent (direct and input fugitive) Total Emission Limit Value (ELV) in licence or any revision therof SELECT SELECT **Table 6: Solvent Mass Balance summary** (O) Outputs (kg) (I) Inputs (kg) Solvent Organic solvent Solvents lost in Collected waste solvent (kg) Fugitive Organic Solvent released in Solvents destroyed Total emission of Solvent (kg) emission in water (kg) other ways e.g. by- onsite through Solvent to air (kg) passes (kg) waste gases(kg) physical reaction (I) Inputs (kg) e.g. incineration(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	Yes	
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	SELECT	

#### Table 1 Ambient monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	level in licence or			Compliant with licence	Comments
	SELECT	SELECT	SELECT			SELECT	SELECT	SELECT	

<sup>\*</sup>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)

2	Was there any result in breach of licence requirements? If yes please provide brief de	etails in the		
_	comment section of Table 3 below		Yes	ther sampling of condensate within the gas extraction syste
	Was all monitoring carried out in accordance with EPA			
	guidance and checklists for Quality of Aqueous Monitoring External /Internal			
	Data Reported to the EPA? If no please detail what areas <u>Lab Quality</u> <u>Asses</u>	ssment of		
4	require improvement in additional information box <u>checklist</u> <u>result</u>	lts checklist	No	ne lab quality monitoring checklist. Monitoring was undertaken prior to issue of basic air monitori

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		Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural	Procedural reference standard number	Annual mass load	% change in mass load from previous year +/-	
S1	Vastewater/Sewe	рН	discrete		Monthly	6 to 9	All values < ELV	2.5	pH units	no (if no please	pH Meter (Electrode)	I.S. (Irish	ISO 5667-3:2003			Monitoring at S1 indicated a reduction of pH
		Sulphate	discrete		Monthly	322	All values < ELV	840	mg/L	no (if no please	Ion Chromatography	I.S. (Irish	ISO 5667-3:2003	10.09	NA	Monitoring at S1 indicated a reduction of pH
		BOD	discrete		Monthly	1770	All values < ELV	2.2	mg/L	yes	Dissolved Oxygen Meter (Electrode)	I.S. (Irish	ISO 5667-3:2003	0.03	NA	
		COD	discrete		Monthly	8000	All values < ELV	41.1	mg/L	yes	Spectrophotometry (Colorimetry)	I.S. (Irish	ISO 5667-3:2003	0.49	NA	
		Ammonia (as N)	discrete		Monthly	2040	All values < ELV	47.2	mg/L	yes	quakem Auto-analyser using phenate metho	I.S. (Irish	ISO 5667-3:2003	0.57	NA	
		Suspended Solids	discrete		Monthly	1500	All values < ELV	46.7	mg/L	yes	Gravimetric analysis	I.S. (Irish	ISO 5667-3:2003	0.56	NA	
		volumetric flow				6500m3	No flow value shall exceed the specific limit.	12m3		yes	Tankered to WWTW					Condensate from the landfill gas extration system. Monitoring at S1 indicated a reduction of pH and increase in sulphate

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

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

	Continuous monitoring		Additional Information
5	Does your site carry out continuous emissions to water/sewer monitoring?	No	
	If yes please summarise your continuous monitoring data below in Table 4 and compare it to its relevant Emission Limit Value (ELV)		
6	Did continuous monitoring equipment experience downtime? If yes please record downtime in		
U		SELECT	
7	Do you have a proactive service contract for each piece of continuous monitoring equipment on		
′	site?	SELECT	
0	Did abatement system bypass occur during the reporting year? If yes please complete table 5		
0	hala	CELECT	

# 8 below Table 4: Summary of average emissions -continuous monitoring

Emission	Emission		ELV or trigger values in licence or any revision	0 0	Compliance	Units of	for current	*	Monitoring Equipment	% compliance current reporting	
reference no:	released to	Parameter/ Substance	thereof	Period	Criteria	measurement	(Kg)		downtime (hours)	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	Reason for	Corrective	Was a report	When was this
			emissions	bypass	action*	submitted to the	report
						EPA?	submitted?
						SELECT	

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

Bund/pipe testin	ng report summary ALL IPP	C/WASTE licensed facilities	Intensive agricultu	ure facilities please use alter	rnative template									
Book distriction	1	door door or or or					A d d'at 1 '- f at							
Bund testing								7						
		egrity testing on bunds and contai	inment structures ? if yes plea	se fill out table 1 below listir	ng all bunds and									
							operation. There are no bunds on site.	4						
2 Please provide integrity	testing frequency period					SELECT								
Does the site maintain a	a register of bunds, underg	ground pipelines (including storm	water and foul), Tanks, sumps	and containers? (containers	refers to "Chemstore"	SELECT								
3 type units and mobile bi	unusj					SEECI		_						
Table	1: Summary details of bu	nd integrity test	Ī											
														Results of
									maintained on		Integrity test failure			current
	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date			explanation <50 words		for retest	reporting ye
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		
		e as detailed in your licence					Commentary	1	1		1			
Has integrity testing bee	en carried out in accordance	e with licence requirements and	are all structures tested in				1							
4 line with BS8007/EPA G	uidance?			bunding and storage guide	lines	SELECT								
		nent systems tested?		-				i						
6 Are channels/transfer of	vetems compliant in both	integrity and available volume?						1						
								1						
o Muse to C7 the	vers nave night level liquid a	01011115!				SELECT		+						
8 If yes to Q/ are these fa	ilsafe systems included in a	a maintenance and testing progra	imme?			SELECT		4						
		-												
Pipeline/undergro	und structure testing							_						
Are you required by you	ir licence to undertake inte	egrity testing on underground stru	actures e.g. pipelines or sump	s etc ? if yes please fill out ta	able 2 below listing all									
						SELECT								
2 Please provide integrity	tacting fraguency period					SELECT		-						
2 riedse provide integrity	testing frequency period					SEEECT		-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"  SELECT  Table 1: Summary details of bund integrity test    Integrity reports maintained on small and an electric provided integrity test failure   Integrity reports maintained on small and an electric provided integrity test failure   Integrity reports maintained on small and on the provided integrity test failure   Integrity reports maintained on small and on the provided integrity test failure   Integrity reports maintained on small and on the provided integrity test failure   Integrity reports maintained on small and on the provided integrity test failure   Integrity reports maintained on small and on the provided integrity test failure   Integrity reports maintained on small and on the provided integrity test failure   Integrity test failure														
Tabi	e 2: Summary details of ur	nderground structures/pipeline in	tegrity test							_		-		
				* ofd										
				containment				Integrity test						
			Does this structure have			Integrity reports			Corrective action	Scheduled date	Results of retest(if in current			
								1 1						
	Type system	Material of construction:	Secondary containment?			maintained on site?	Results of test	<50 words	taken		reporting year)			
	Type system SELECT	Material of construction: SELECT	Secondary containment?	SELECT		maintained on site?	Results of test SELECT	<50 words	taken		reporting year) SELECT			
	Type system SELECT	Material of construction: SELECT	Secondary containment?	SELECT		maintained on site?	Results of test SELECT	<50 words	taken		reporting year) SELECT	-		
	Type system SELECT	Material of construction: SELECT	Secondary containment?	SELECT		maintained on site?	Results of test SELECT	<50 words	taken		reporting year) SELECT			
	Type system SELECT	Material of construction: SELECT	Secondary containment?	SELECT		maintained on site?	Results of test SELECT	<50 words	taken		reporting year) SELECT			
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ali	nvest in capital improvems	Please use community of the second of the se	Secondary containment? SELECT  mentary for additional details.	not answered by tables/ que	SELECT states above	maintained on site? SELECT	SELECT			for retest	reporting year) SELECT			

ajinvest in capital improveme b) operational improve reinforced concrete general purpose concrete prefabricated Pass Fallons F pvc polypropylene other(please specify) Mix (please specify) Combination
Removed obstruction Other (please describe)

Complaints			
		Additional informat	tion
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		

Table	e 1 Complaints summary						
Doto	Catagory	Other type (places enecify)	Brief description of complaint (Free txt <20	Corrective action< 20	Resolution status	Desclution data	Further information
Date	Category	Other type (please specify)	words)	words		Resolution date	IIIIOIIIIation
	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							
eporting year							

	Incidents			
				Additional information
Have any incidents occurred on site in the current repo	rting year? Please list all incid	ents for current reporting		
year in Tab	le 2 below		No	
		]		<u> </u>
*For information on how to report and what				
constitutes an incident	What is an incident			

year Total number of

incidents previous
year
% reduction/

increase

Table 2 Incidents sur	nmary													
						Other	Activity in				Preventative			
			Incident category*please			cause(please	progress at			Corrective action<20	action <20		Resolution	Liklihood of
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	time of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurence
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of														
incidents current														

## **Groundwater / Contaminated land summary report**

		Comments
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	
2 Are you required to carry out soil monitoring as part of your licence requirements?	no	
<sup>3</sup> Do you extract groundwater for use on site? If yes please specify use in comment section	no	
4 Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12	yes	
5 Is the contamination related to operations at the facility (either current and/or historic)		approximately 32 hectares in extent and
6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	yes	The following restoration works where
7		Restoration works where undertaken at the site during 2005-
Please specify the proposed time frame for the remediation strategy	·	2007.
8 Is there a licence condition to carry out/update ELRA for the site?	no	
9		Assessment where undertaken as part of the waste licence
Has any type of risk assesment been carried out for the site?	yes	application in 1998/1999
Has a Conceptual Site Model been developed for the site?		as per original application
11 Have potential receptors been identified on and off site?	no	
12 Is there evidence that contamination is migrating offsite?	yes	The site is unlined . Groundwater

**Table 1: Upgradient Groundwater monitoring results** 

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*		% change in average concentration previous year +/-	Upward trend in pollutant concentration over last 5 years of monitoring data
2011			gy	, and the same of			diffe				SELECT
	BH1A	Ammonia	analyser using	Monthly	0.04	0.04	mg/l	175	0.15	25	data not available
		Barium	ICP-MS	Monthly	52.7	30	ug/l		0.1	-12	data not available
		Cadmium	ICP-MS	Monthly	0.5	0.25	lug/l	3.75	0.005	-33	data not available
		Chloride	analyser using	Monthly	51	31.08	mg/l		30	14	data not available
		Chromium	ICP-MS	Monthly	2.2	1.5	ug/l	37.5	0.03	0	data not available
											data not available
		Conductivity	Meter	Monthly	2190	889.2	μS/cm		1000	-25	data not available
		Iron	ICP-MS	Monthly	77.8	48.98	ug/l	18.75	0.02	-29	data not available
		Lead	ICP-MS	Monthly	2.4	1.83	ug/l		0.01	-31	data not available
		Manganese	ICP-MS	Monthly	65.3	23.81	ug/l	15	0.05	-33	data not available
		Nickel	ICP-MS	Monthly	9.7	5.03	ug/l		0.02	-63	data not available

	рН	pH Meter	Monthly	7.4	7.15		≥ 6.5 and ≤ 9.5	1	data not available
	Potassium	ICP-MS	Monthly	8.56	6.09	mg/l	5	5	data not available
	Sodium	ICP-MS	Monthly	19.19	15.87	mg/l	150	2	data not available
	TON	analyser using	Monthly	4.7	3.35	mg/l		-3	data not available
	Zinc	ICP-MS	Monthly	69	25.95	ug/l	0.1	8	data not available

<sup>.+</sup> where average indicates arithmetic mean

**Table 2: Downgradient Groundwater monitoring results** 

			ater monitori	1.6	I			1		•	1
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	IGV	% change in average concentration	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
2011	BH10A	Ammonia	analyser using	Monthly	0.09	0.1	mg/l	175	0.15	54	data not available
		Barium	ICP-MS	Monthly	62.1	50.9			0.1		data not available
		Cadmium		Monthly	<0.1		ug/l	3.75	0.005		data not available
		Chloride		Monthly	87		mg/l		30	12	data not available
		Chromium	ICP-MS	Monthly	1.9		ug/l	37.5	0.03		data not available
			Conductivity	,	640		- C.				
		Conductivity	Meter	Monthly			μS/cm		1000	-3	data not available
		Iron	ICP-MS	Monthly	134.9	58.7			0.02	-281	data not available
		Lead	ICP-MS	Monthly	0.8		ug/l	18.75	0.01	-288	data not available
		Manganese	ICP-MS	Monthly	277	41.8			0.05	142	data not available
		Nickel	ICP-MS	Monthly	6.1	4.3	ug/l	15	0.02	-33	data not available
		рН	pH Meter	Monthly	8.2	7.8			≥ 6.5 and ≤ 9.5		data not available
		Potassium	ICP-MS	Monthly	11.25	9.7	mg/l		5	-8	data not available
		Sodium	ICP-MS	Monthly	54.91	47.2	mg/l		150	-10	data not available
		TON	analyser using	Monthly	0.42	0.2	mg/l			-54	data not available
		Zinc	ICP-MS	Monthly	25.2	6.4	ug/l		0.1		data not available
			1	,			<u> </u>				
	BH11A	Ammonia	analyser using	Monthly	<0.03	<0.03	mg/l	175	0.15		data not available
		Barium	ICP-MS	Monthly	37.5		ug/l		0.1		data not available
		Cadmium	ICP-MS	Monthly	<0.1		ug/l	3.75	0.005		data not available
			analyser using		53						
		Chloride	ferricyanide	Monthly			mg/l		30		data not available
		Chromium		Monthly	3.3		ug/l	37.5	0.03	-43	data not available
		Conductivity	Conductivity Meter	Monthly	482		μS/cm		1000	-16	data not available
		Iron	ļ	Monthly	209				0.02		data not available
		Lead		Monthly	1		ug/l	18.75			data not available
		Manganese		Monthly	22.3		ug/l	10.75	0.01		data not available
		Nickel	ICP-MS	Monthly	2.3		ug/l	15			data not available
		pH	pH Meter	Monthly	7.7	7.5		13	≥ 6.5 and ≤ 9.5		data not available
		Potassium	ICP-MS	Monthly	31		mg/l		<u>_                                    </u>		data not available
		Sodium	ICP-MS	Monthly	46.4		mg/l		150		data not available
			analyser using		2.9						
		TON		Monthly			mg/l			22	data not available
		Zinc	ICP-MS	Monthly	9.6	6	ug/l		0.1	2	data not available
							SELECT				SELECT

<sup>.++</sup> maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

\* 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)

Groundwater Drinking water
Surface regulations (private supply)

GTV's

water EQS

(private supply) standards <u>Drinking water (public</u> <u>Interim Guideline</u> <u>supply) standards</u> <u>Values (IGV)</u>

**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 complied for upward trend in yearly average pollutant concentration over 5 years of monitoring data for 2012 reporting period for groundwater. Barium concentrations are above the IGV of 0.1 mg/l in all downgradient boreholes. Chloride concentrations are above the IGV of 30mg/l in all downgradient boreholes. The down-gradient results show Iron concentrations above the IGV of 0.2mg/l and the DWR of 200µg/l at BH11A. Manganese concentrations are also above the IGV of 0.05mg/l and DWR of 50µg/l at BH10A. Potassium concentrations are above the IGV of 5mg/l in BH10A and BH11A.

Δ	
Average ncentration	unit
	SELECT
	SELECT
onitoring dat	a for 2012 reporting Chloride concentrations
	ns above the IGV of
	DWR of 50μg/l at BH10A.

## Environmental Liability Risk Assessment

			Commentary
1	Is it a requirement of your licence to complete an ELRA?	No	Landfill Site is closed. CWF in operation
2	Has an initial ELRA been submitted to and approved by the Agency?	SELECT	
3	Please enter the date of submission of the initial ELRA		
4	Date of most recent substantial ELRA update		
5	What financial instrument/s do you have in place to cover unknown liabilities?	SELECT	
6	Has this financial instrument/s been verified by the Agency?	SELECT	
7	What is the date of expiry of this financial instrument?		
8	Date of next required review of the ELRA?		

<sup>9</sup> Please list the top 10 risks assessed on your site in table 1 below

### Table 1 ELRA summary information

Click here to access EPA guidance on ELRA	Operational Risk Assessment Category	SELECT							
				Mitigat	ion measures to redi	uco riek	ELR	^	
				iviitigat		l l	ELN	A	-
					Date of				Does the current
					implementation of				financial provision
					mitigation		Revised Risk score for		(FP) cover the risk
Risk ID	Potential hazards	Environmental effect	Previous risk score	Action	measures		current reporting year	ELRA costing	score?
Chemical storage	Bund failure resulting in spillage of hazardous chemicals on site	Surface water /soil/groundwater contamination	6	Infrastructural improvements	31/05/2009	Relined all bunds >10years old on site	3	€10,000	Yes
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
SELECT			SELECT	SELECT			SELECT		SELECT
Total			SELECT	SELECT			SELECT		SELECT

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

1	Was a closure or restoration plan a requirement of the licence?	SELECT	
2	Has a closure plan submission been approved by the Agency?	SELECT	
3	What is the timescale for submission?		
4	What financial instrument do you have in place to cover known liabilities?	SELECT	
5	What is the date of expiry of this financial instrument?		
6	What is the status of implementation of the plan?		

#### Table 2 CRAMP summary information (NON Landfill)

	Table 2 Civalvii Saininary information (Norv Edilariii)							
					Change in Risk		Does the current	Value of current
				Restoration Aftercare	category since		financial provision	financial provision
Date of submission of plan	Risk category	Closure plan in place	Clean closure	Management Plan	previous year	Increase in risk category	cover the risk score?	for site
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	

		Additional informa
		No energy audit ha
When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below		been undertaken fo
SEAI - Large		
Is the site a member of any accredited programmes for reducing energy usage/water conservation such <u>Industry Energy</u>	<u>y</u>	
as the SEAI programme linked to the right? If yes please list them in additional information Network (LIEI	<u>√)</u> no	
Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage	in	

Resource usage/ Energy Efficiency

SELECT

N/A

Table 1 Energy usage	on site			
Energy Use	Previous year kWh		compared to	Energy Consumption +/- % vs overall site production*
Total		·		
Electricity	2,850	3650	22	CWF Facility Only
Fossil Fuels:				
Heavy Fuel Oil				
Light Fuel Oil				
Natural gas				
Coal/Solid fuel				
Renewable energy generated on site				

additional information

1

2

3

Table 2 Water usage	on site			
			· ·	Energy Consumption +/- % vs overall site
Water use	Previous year m3/yr.	Current year m3/yr.		production*
Groundwater				
Surface water				
Public supply	300	350	14	CWF Facility Only
Total				

<sup>\*</sup> 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.

Table 3: Energy Au	dit finding recommendati	ons					
Date of audit		Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Status and comments
			SELECT				
			SELECT				
			SELECT				

<sup>\*</sup> 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

<sup>\*\*</sup> where site production information is available please enter percentage increase or decrease compared to previous year

SECTION A-PRTR	WASTE TRANSFERS TAB- TO	BE COMPLETED BY ALL I	PPC AND WASTE FACE	ILITIES		PRINIACIILYIO	011	•	dropdown list click to see options		
SECTION B- WAS	TE ACCEPTED ONTO SITE-TO	BE COMPLETED BY ALL II	PPC AND WASTE FACI	LITIES							
Were any wastes acco	epted onto your site for recovery or o	disposal or treatment prior to n	ecovery or disposal within t	he boundaries of your fa	cility ?; (waste generated within your		Additional Information CWF. grade & segregate waste from				
	aptured through PRTR reporting) tails in table 1 below		,,		cility ?; (waste generated within your	Yes	municipal sources and				
Did your site have an	y rejected consignments of waste in t	the current reporting year? If ye	es please give a brief explan	nation in the additional in	formation	Yes					
Was was	te accepted onto your site that was g	enerated outside the Republic	of Ireland? If yes please sta	te the quantity in tonnes	in additional information clude wastes generated at	your site, a	s these will have	been reported in	your PRTR workbook)		
Licenced annual tonnage limit for you	EWC code	Source of waste accepted	Description of waste accepted	Quantity of waste accepted in current	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/Incr ease over	Reason for reduction/increase	Packaging Content (%)- only applies if the	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste	Comments -
site (total tonnes/annum)			Please enter an accurate and detailed	reporting year (tonnes)		previous year +/ - %	from previous reporting year	waste has a packaging component		remaining on site at the end	
	European Waste Catalogue EWC codes		description - which European Waste Catalogue EWC codes							of reporting year (tonnes)	
	07 05 04*	07- WASTES FROM ORGANIC CHEMICAL PROCESSES	other organic solvents, washing liquids and mother liquors	22				200	SELECT		Brought onto site from sister IPPC plant
	070504*	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND	mother siquors		24	839			Setzer		piont
		SIMILAR COMMERCIAL, INDUSTRIAL AND									
		INSTITUTIONAL WASTES)	biodegradable kitchen								
	20 01 08	COLLECTED FRACTIONS 20- MUNICIPAL WASTES	and canteen waste	10	20	-509		0%	SELECT		
		(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL,									
		INDUSTRIAL AND INSTITUTIONAL WASTES)							R3-Recycling/reclamation or organic substances which are not used		
	20 02 01	INCLUDING SEPARATELY COLLECTED FRACTIONS 20: MUNICIPAL WASTES	Organic waste garden	1475.66	1840.3	-209	CA site. Volumes depend	dent on public usage.	as solvents/including composting asnother biological transformation processes/which includes gasification and pyrolisis		
		(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL									
		INDUSTRIAL AND INSTITUTIONAL WASTES)									
	15 01 07	INCLUDING SEPARATELY COLLECTED FRACTIONS	glass non-packaging	161.74	166.93		CA site. Volumes depend	dent on public usage.	R13-Storage of waste pending any of the operations numbered R1 t R12 (excluding temporary storage)	•	
		20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND									
		SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES)									
	15 01 04	INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	other metals (non-				CA site Molumon do-	Sent on public urrer	R13-Storage of waste pending any of the operations numbered R1 t R12 (excluding temporary storage)	+	
	250104	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND	packaging)	140.5	121.5			or poset toage.	naa jeacnowny semporary storogey		
1		SIMILAR COMMERCIAL, INDUSTRIAL AND									
		INSTITUTIONAL WASTES) INCLUDING SEPARATELY							R13-Storage of waste pending any of the operations numbered R1 to		
	20 01 38	COLLECTED FRACTIONS	wood non-packaging	155		-	CA site. Volumes depend	dent on public usage.	R12 (excluding temporary storage)		
		15- WASTE PACKAGING; ABSORBENTS, WIPING									
	15 01 03	CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING	wood newtown	_			Carre term	feet on or till	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
	15 01 03	NOT OTHERWISE SPECIFIED 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND	wood packaging	368	706	1	CA Site. Volumes depend	nems on public usage.	K12 (excluding temporary storage)		
		(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND									
		INSTITUTIONAL WASTES) INCLUDING SEPARATELY							R13-Storage of waste pending any of the operations numbered R1 t		
	20 01 10	COLLECTED FRACTIONS	Clothes	6.25	18.40	-	CA site. Volumes depend	dent on public usage.	R12 (excluding temporary storage)		
	16 06 01	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Lead Batteries	8	17.00	i	CA site. Volumes depend	dent on public usage.	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	•	
		16- WASTES NOT OTHERWISE							R13-Storage of waste pending any of the operations numbered R1 t		
	16 06 04	SPECIFIED IN THE LIST  15- WASTE PACKAGING;	Alkaline batteries	3			CA site. Volumes depend	dent on public usage.	R12 (excluding temporary storage)		
		ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS									
	15 01 02	AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Plastic packaging	198.44	183.96		CA site. Volumes depend	fent on public usage.	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	•	
		15- WASTE PACKAGING;									
		ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING	Paper and cardboard								
	15 01 01	NOT OTHERWISE SPECIFIED  20- MUNICIPAL WASTES	packaging	312	433.50		CA site. Volumes depend	dent on public usage.	R13-Storage of waste pending any of the operations numbered R1 t R12 (excluding temporary storage)	•	
		(HOUSEHOLD WASTE AND									
		SIMILAR COMMERCIAL.									
		SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES)									
	20 03 01	SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	mixed municipal waste	450	53		CA site. Contamination.	Volumes dependent on p	DS- Specially engineered landfill		
	20 03 01 20 01 01	SMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS 20: MUNICIPAL WASTES (HOUSEHOLD WASTE AND	mixed municipal waste Paper and cardboard	450 130	52	#DIV/0I	CA site. Contamination. CA site. Valumes depend	Volumes dependent on place on public usage.	DS-Specially engineered landfill RES Storage of waste pending am of the operations numbered RE t RES (excluding temporary storage)		
	COMPLETED BY ALL WASTE	SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPRARTELY COLLECTED FRACTIONS 20 MURICIPAL WASTES (HOUSEHOLD WASTE AND FACILITIES (Waste transf	mixed municipal waste Paper and cardboard er stations, Composte	450 130 ers, Material recove		#DIV/OI	CA site. Contomination. CA site. Volumes depend	Volumes dependent on public usage.	O1-Specially engineered length #33 Storage of worste providing any of the operations numbered #1 of 127 peaching temporary storages*	]	
		SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPRARTELY COLLECTED FRACTIONS 20 MURICIPAL WASTES (HOUSEHOLD WASTE AND FACILITIES (Waste transf	mixed municipal waste Paper and cardboard er stations, Composte ency in place? If no please li	450 130 ers, Material recove sist waste processing infra			CA site. Contamination. CA site. Volumes depend	Volumes dependent on a	D1: Specially engineered longfill #13 Storage of waste pending on of the operation numbered #1 f #12 (Rechalley temporary storage)		
s all waste processin s all waste storage in	g infrastructure as required by your life	SMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED PRACTIONS 20 MUNICIPAL WASTES (MOUSEHOLD WASTE AND FACILITIES (waste transf icence and approved by the Agence			sstructure required onsite	FILL SITES Yes	CA site. Contomination. CA site. Volumes depend	Volumes dependent on g	D1-Specially engineered langfil #ILI Storage of waits practing any of the operation numbered BLT #LI Storage of waits practing any of the operation numbered BLT #LI Seculating temporary storage()		
s all waste processin s all waste storage in Does your facility have	g infrastructure as required by your life frastructure as required by your life re relevant nuisance controls in place re relevant nuisance controls in place	SMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED PRACTIONS ZO MURINICIPE WASTES IMOUSEHOLD WASTE AND FACILITIES (waste transf science and approved by the Agence zee and approved by the Agence Z			sstructure required onsite	FILL SITES Yes	CA site. Contamination. CA site. Volumes depend		D1-Specially engineered landfill #13 Storage of water pending any of the speciations numbered #1 T #12 (encluding temporary storage)  #13 Including temporary storage)		
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Is all waste processing is all waste storage in Does your facility have Do you have an odou Do you maintain a site SECTION D-TO BIT Table 2 Waste type Sermitte for disposal Household (residual) industrial non industr	completed by All WASTE ginfrastructure as required by your life frastructure as required by your like referent ensistence controls in place or management system in place for you dispressive on Self- ger register on Self- ger register on Self- completed by Anthoristic Self- son of the Self-son of the Self- son of the Self-son of the Self- son of the Self-son o	SIGNLE COMMERCIAL AND MICHAEL MICH	y in place? If no please list v  Remaining Ecened capacity at end of reporting year (m3)		sstructure required onsite	FILL SITES Yes	CA site. Contemination. CA site. Volumes depens		#12 (recluding temporary storage)		
Is all waste processing as all waste storage in Does your facility have no odous Do you have an odous Do you maintain a site SECTION D-TO BIT Table 2 Waste types permitte for disposal Household [residual] industrial non industrial	completed by ALL WASTE ginfrastructure as required by your line frastructure as required by your line or relevant nulsanor controls in place management yellow in place for you dige register on ste?  COMPLETE BY LANDFIL 3  early and tonnage-landfill only, all authorized-forward answel inside for digeous (page)	SIGNIA COMMERCIAL MODIFICATION	y in place? If no please list v		sstructure required onsite	FILL SITES Yes	CA site. Contomination. CA site. Volumes depend		#12 (recluding temporary storage)		
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is all waste processin is all waste processin is all waste storage in Oose your facility have no doos you have an odoo does you wastern as see SECTION 0-TO 81 Table 2 Waste by Waste System your wastern as well as the control of the	completed by ALL WASTE girlfrastructure as required by your line frastructure as required by your line re relevant mulatance controls in place management yellers on ste? COMPLETED BY LANDFILL 35 pe and tonnage-landfill only d sutbordedCounce anusat intake for disposed to the step of the step of the step 30.000 500	SMILER COMMERCIAL MODISTRAL ADD MODISTRAL AD	y in place? If no please list vite and the ple	waste storage infrastruct  Comments	sstructure required onsite ure required on site	FILL SITES Yes		CA	#12 (recluding temporary storage)	area occupied by waste	area occupied by waste
is all waste processing is all waste processing is all waste storage in loos your facility has book your facility has book your facility has book you maintain a sit as SECTION DTO BY Table 2 Waster your Table 2 Waster you waster yo	completed by ALL WASTE ginfrastructure as required by your life frastructure as required by your for re relevant nutrainers controls in place management yeter in place for your days register on state?  COMPLETED BY LANDFILL SI pee and tonnage-landfill only  5000  5000  formation-Landfill only	SMILER COMMERCIAL MODISTRAL AND MODISTRAL AN	y in place? If no please list vite and the ple	Comments  Private or Public	sstructure required onsite ure required on site	Yes SELECT Yes No. No. Ny.A		GA1	#22 including temporary stranged	area occupied by waste	Lined disposal area occupied by waste
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Environmental Management Programme (EMP)/Continuous Improvement Programm
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	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	ite is closed. CWF in operation only. EMS and EMP to be updated
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	ite is closed. CWF in operation only. EMS and EMP to be update
	Does the EMS maintain an Environmental Management Programme (EMP) as required in		
3	accordance with the licence requirements	Yes	te is closed. CWF in operation only. EMS and EMP to be updated
	Do you maintain an environmental documentation/communication system to inform the public on		
4	environmental performance of the facility, as required by the licence	Yes	ite is closed. CWF in operation only. EMS and EMP to be update

Environmental Management Programme (EMP) report						
Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes		
	SELECT		SELECT	SELECT		
	SELECT		SELECT	SELECT		
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