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guidance document link	cells that contain underlined text c
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Please note an interpretation of results is still required. This should be e
appropriately to fit your interpretation, if additional space is required plea
template should have all cells sized appropri

:ain a dropdown menu click to select one option from the list

:lick to access relevant guidance documents for this section

ol have an associated footnote or instructions

ıe top right corner contain a comment box with further instructions or clarification

ntered in the additional information/comments boxes within the templates. Please size these boxes
ıse include an appendix to the AER template and merge it as part of the AER PDF document. The excel
ately so that all text is readable before it is converted to PDF document.

Facility Information Summary	
AER Reporting Year	2014
Licence Register Number	W0022-01
Name of site	East Cork Landfill
Site Location	Rossmore, Carrigtwohill, Co. Cork
NACE Code	3821
Class/Classes of Activity	5(c), 5(d), 50.1
National Grid Reference (6E, 6 N)	8.25588E 51.8851N

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year **and an overview of compliance with your licence** listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.

East Cork Landfill has been closed since February 2007. Final Capping took place in 2008 and was completed in 2009. The environmental performance of the facility has continued to improve in comparison with previous years. One complaint was registered in 2014. The gas extraction system has continued to perform with the enclosed flare burning off the gas generated. Minor exceedences have again been measured in the perimeter gas wells but are explained by the estuarine conditions and limestone bedrock that account for naturally occuring CO2 and CH4. Both Leachate and groundwater results are similar to previous years. The noise survey was compliant for the year as would be expected with no large landfill compacting plant from the site. Overall the site has been compliant with its Licence.

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.

_____	_____27/03/2015_____
Signature	Date

AIR-summary template | Lic No: W0022-01 | Year 2014

Answer all questions and complete all tables where relevant

			Additional information
1	Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables	Yes	

Periodic/Non-Continuous Monitoring

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

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision therof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
Flare Stack	Methane (CH4)	Continuous	N/A	SELECT	562479	m3	yes	MAB	382486	Annual mass load refers to difference
Flare Stack	Carbon dioxide (CO2)	Continuous	N/A	SELECT	401906	m3	yes	ISO 12039:2001	751564	Annual mass load refers to difference
Flare Stack	Carbon monoxide (CO)	Continuous	<50mg/Nm3	No 30min mean can exceed the ELV	1.79	mg/Nm3	yes	ISO 12039:2001	6.2	
Flare Stack	Nitrogen oxides (NOx/NO2)	Annual	<150mg/Nm3	No 30min mean can exceed the ELV	182.71	mg/Nm3	yes	EN 14792:2005	632.5	
Flare Stack	Sulphur oxides (SOx/SO2)	Annual	N/A	SELECT	23.44	mg/Nm3	yes	EN 14792:2005	81.14	
	SELECT			SELECT		SELECT	SELECT	SELECT		
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

AIR-summary template	Lic No:	W0022-01	Year	2014

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 A2 and compare it to its relevant Emission Limit Value (ELV)

5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	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 A3 below	No	

Table A2: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	ELV in licence or any revision therof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
Flare Stack	PRTR	N/A	12 month	100 % of values < ELV	m3			181		Have recorded the combined annual downtime of Flare at East Cork Landfill Landfill in this section. The emissions totals have been submitted in the above table.
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

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

Table A3: Abatement system bypass reporting table Bypass protocol

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

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

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

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Solvent use and management on site

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

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

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

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

Table A5: Solvent Mass Balance summary

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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0022-01 Year 2014

		Additional information
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections	No
2	Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections	SELECT

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
sw1	upstream		pH	Quarterly	No ELV or trigger levels	N/A	8.7	pH units	yes	Median vaule for 2014
sw1	upstream		Temperature	Quarterly	No ELV or trigger levels	N/A		degrees C	yes	Median vaule for 2014
sw1	upstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	44.7	µS/cm @20oC	yes	Median vaule for 2014
sw1	upstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A		mg/L	yes	Median vaule for 2014
sw1	upstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	13873	mg/L	yes	Median vaule for 2014
sw1	upstream		BOD	Quarterly	No ELV or trigger levels	N/A	<1	mg/L	yes	Median vaule for 2014
sw1	upstream		COD	Quarterly	No ELV or trigger levels	N/A	320	mg/L	yes	Median vaule for 2014
sw1	upstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.54	mg/L	yes	Median vaule for 2014
sw1	upstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	187	mg/L	yes	Median vaule for 2014
sw1	upstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	3.000	µg/L	yes	Annual value for 2014
sw1	upstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	8.000	µg/L	yes	Annual value for 2014
sw1	upstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	<0.5	µg/L	yes	Annual value for 2014
	upstream		CALCIUM			N/A	610.000	mg/L	yes	Annual value for 2014
sw1	upstream		Iron	Annual	No ELV or trigger levels	N/A	259.000	µg/L	yes	Annual value for 2014
sw1	upstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	45.000	mg/L	yes	Annual value for 2014
sw1	upstream		Magnesium	Annual	No ELV or trigger levels	N/A	1475.000	mg/L	yes	Annual value for 2014. Elevation due to geology of the site
sw1	upstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	49.000	µg/L	yes	Annual value for 2014
sw1	upstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.05	µg/L	yes	Annual value for 2014
sw1	upstream		Potassium	Annual	No ELV or trigger levels	N/A	162.000	mg/L	yes	Annual value for 2014
sw1	upstream		Sulphate	Annual	No ELV or trigger levels	N/A	2617.000	mg/L	yes	Annual value for 2014. Sample site at estuary
sw1	upstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	<0.1	mg/L	yes	Annual value for 2014
sw1	upstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	<5.0	µg/L	yes	Annual value for 2014
sw1	upstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.090	mg/L	yes	Annual value for 2014
sw2	**upstream**		**pH**	**Quarterly**	**No ELV or trigger levels**	**N/A**	**8.6**	**pH units**	**yes**	**Median vaule for 2014**
sw2	upstream		Temperature	Quarterly	No ELV or trigger levels	N/A		degrees C	yes	Median vaule for 2014
sw2	upstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	43.65	µS/cm @20oC	yes	Median vaule for 2014
sw2	upstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A		mg/L	yes	Median vaule for 2014
sw2	upstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	16703	mg/L	yes	Median vaule for 2014
sw2	upstream		BOD	Quarterly	No ELV or trigger levels	N/A	<1	mg/L	yes	Median vaule for 2014
sw2	upstream		COD	Quarterly	No ELV or trigger levels	N/A	40	mg/L	yes	Median vaule for 2014
sw2	upstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.55	mg/L	yes	Median vaule for 2014
sw2	upstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	244.5	mg/L	yes	Median vaule for 2014
sw2	upstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	2.000	µg/L	yes	Annual value for 2014
sw2	upstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	6.000	µg/L	yes	Annual value for 2014
sw2	upstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	<0.5	µg/L	yes	Annual value for 2014
sw2	upstream		CALCIUM			N/A	1336.000	mg/L	yes	Annual value for 2014

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sw2	upstream		Iron	Annual	No ELV or trigger levels	N/A	379.000	µg/L	yes	Annual value for 2014
sw2	upstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	31.000	µg/L	yes	Annual value for 2014
sw2	upstream		Magnesium	Annual	No ELV or trigger levels	N/A	2848.000	mg/L	yes	Annual value for 2014. Elevation due to geology of the site
sw2	upstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	70.000	µg/L	yes	Annual value for 2014
sw2	upstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.05	mg/L	yes	Annual value for 2014
sw2	upstream		Potassium	Annual	No ELV or trigger levels	N/A	179.000	mg/L	yes	Annual value for 2014
sw2	upstream		Sulphate	Annual	No ELV or trigger levels	N/A	2556.000	mg/L	yes	Annual value for 2014
sw2	upstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	<0.1	mg/L	yes	Annual value for 2014
sw2	upstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	5.000	µg/L	yes	Annual value for 2014
sw2	upstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.070	mg/L	yes	Annual value for 2014
sw3	**downstream**		**pH**	**Quarterly**	**No ELV or trigger levels**	**N/A**	**8.8**	**pH units**	**yes**	**Median vaule for 2014**
sw3	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A		degrees C	yes	Median vaule for 2014
sw3	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	32.9	µS/cm @20oC	yes	Median vaule for 2014
sw3	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A		mg/L	yes	Median vaule for 2014
sw3	downstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	21650	mg/L	yes	Median vaule for 2014
sw3	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	<1	mg/L	yes	Median vaule for 2014
sw3	downstream		COD	Quarterly	No ELV or trigger levels	N/A	55	mg/L	yes	Median vaule for 2014
sw3	downstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.44	mg/L	yes	Median vaule for 2014
sw3	downstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	117.5	mg/L	yes	Median vaule for 2014
sw3	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	2.000	µg/L	yes	Annual value for 2014
sw3	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	2.000	µg/L	yes	Annual value for 2014
sw3	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	<0.5	µg/L	yes	Annual value for 2014
sw3	downstream		CALCIUM	Annual	No ELV or trigger levels	N/A	856.000	mg/L	yes	Annual value for 2014
sw3	downstream		Iron	Annual	No ELV or trigger levels	N/A	446.000	µg/L	yes	Annual value for 2014
sw3	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	32.000	µg/L	yes	Annual value for 2014
sw3	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	52.000	mg/L	yes	Annual value for 2014. Elevation due to geology of the site
sw3	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	41.000	µg/L	yes	Annual value for 2014
sw3	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.05	mg/L	yes	Annual value for 2014
sw3	downstream		Potassium	Annual	No ELV or trigger levels	N/A	317.000	mg/L	yes	Annual value for 2014
sw3	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	1416.000	mg/L	yes	Annual value for 2014. Site located in estuary
sw3	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	<0.1	mg/L	yes	Annual value for 2014
sw3	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	7.000	µg/L	yes	Annual value for 2014
sw3	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.100	mg/L	yes	Annual value for 2014
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

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

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

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
			SELECT		
			SELECT		

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

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

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision therof[Note 2]	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			

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

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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)	Lic No:	W0022-01	Year	2014

Continuous monitoring

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

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

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

Table W4: Summary of average emissions -continuous monitoring

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

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template

Lic No: W0022-01 Year 2014

Bund testing

dropdown menu click to see options

			Additional information
1	Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to **all bunds which failed** the integrity test-**all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)	Yes	
2	Please provide integrity testing frequency period	3 years	
3	Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)	No	
4	How many bunds are on site?	3	
5	How many of these bunds have been tested within the required test schedule?	3	
6	How many mobile bunds are on site?	0	
7	Are the mobile bunds included in the bund test schedule?	No	
8	How many of these mobile bunds have been tested within the required test schedule?	0	
9	How many sumps on site are included in the integrity test schedule?	0	
10	How many of these sumps are integrity tested within the test schedule?	0	
	Please list any sump integrity failures in table B1		
11	Do all sumps and chambers have high level liquid alarms?	N/A	
12	If yes to Q11 are these failsafe systems included in a maintenance and testing programme?	N/A	
13	Is the Fire Water Retention Pond included in your integrity test programme?	SELECT	

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

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
Leachate Lagoon	reinforced concrete		leachate	1400	1000	Structural assessment		Nov-08	Yes	Pass		SELECT	2015	
Surfacewater Lagoon	reinforced concrete		surfacewater	10000	7500	Structural assessment		Nov-08	Yes	Pass			2015	
Surfacewater Lagoon	reinforced concrete		surfacewater	2500	2000	Structural assessment		Nov-08	Yes	Pass		SELECT	2015	

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

Pipeline/underground structure testing

1	Are you required by your licence to undertake integrity testing* on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all underground structures and pipelines on site **which failed the integrity test and all which have not been tested withing the integrity test period as specified**	SELECT	
2	Please provide integrity testing frequency period	SELECT	

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

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

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

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

Groundwater/Soil monitoring template	Lic No:	W0022-01	Year	2014

			Comments	
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes		Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
2	Are you required to carry out soil monitoring as part of your licence requirements?	no		
3	Do you extract groundwater for use on site? If yes please specify use in comment section	no		
4	Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. Groundwater monitoring template	no		
5	Is the contamination related to operations at the facility (either current and/or historic)	N/A		
6	Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	N/A		
7	Please specify the proposed time frame for the remediation strategy	N/A		
8	Is there a licence condition to carry out/update ELRA for the site?	N/A		
9	Has any type of risk assesment been carried out for the site?	N/A		
10	Has a Conceptual Site Model been developed for the site?	N/A		
11	Have potential receptors been identified on and off site?	N/A		The groundwater results at the site are in line with previous years. No upward trend has been observed in 2013 compared with previous years.
12	Is there evidence that contamination is migrating offsite?	N/A		

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	Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly	**BH3**	**pH**		**Quarterly**		**7.3**	**units**		**9.5**	**no**
	BH3	Temp		Quarterly			c			no
	BH3	Elec.Conductivity		Quarterly		12.4	mS/cm		1000	no
	BH3	Chlorides		Quarterly		3737	mg/l		250	no
	BH3	Ammoniacal Nitorgen		Quarterly		2.7	mg/l		0.02NH3	no
	BH3	Iron		Annual		5.7	ug/l		1.0mg/l	no
	BH3	TON		Quarterly		<0.1	mg/l			no
	BH3	TOC		Quarterly		105	mg/l			no
Annual	BH3	Cadmium		Annual		2124	ug/l		0.005mg/l	no
	BH3	Chromium (total)		Annual	1	1	ug/l		0.03mg/l	no
	BH3	Copper		Annual	1	1	ug/l		0.03mg/l	no
	BH3	Cyanide (Total)		Annual			ug/l		0.01mg/l	no
	BH3	Lead		Annual	52	52	ug/l		0.01mg/l	no
	BH3	Mangnesium		Annual	877	877	mg/l			no

Groundwater/Soil monitoring template			Lic No:	W0022-01		Year	2014			
	BH3	Manganese		Annual	1303	1303	ug/l		0.3mg/l	no
	BH3	Mercury		Annual			ug/l		0.001mg/l	no
	BH3	Potassium		Quarterly	631	631	mg/l		5mg/l	no
	BH3	Sodium		Quarterly						no
	BH3	Sulphate		Annual			mg/l			no
	BH3	Total Alkalinity		Annual	<1.0	<1.0	mg/l			no
	BH3	Total Phosphorus		Annual	<1.0	<1.0	mg/l			no
	BH3	Arsenic		Annual	1	1	ug/l			
	BH3	Barium, total		Annual	1087	1087	ug/l			
	BH3	Boron, total		Annual	1.36	1.36	mg/l			
	BH3	Selenium, total		Annual	2	2	ug/l			
	BH3	Silver		Annual	0.0015	0.0015	mg/l			
	BH3	Tellurium, total		Annual	<0.5	<0.5	ug/l			
	BH3	Thallium, total		Annual	<0.5	<0.5	ug/l			
	BH3	Vanadium, total		Annual	<0.5	<0.5	ug/l			
	BH3	Phenols		Annual	<1.0	<1.0	ug/l		0.5ug/l	no
	BH3	Acenaphthylene		Annual	<1.0	<1.0	ug/l			no
	BH3	Acenaphthylene		Annual	<1.0	<1.0	ug/l			no
	BH3	Anthracene		Annual	<1.0	<1.0	ug/l			no
	BH3	Benzene		Annual	<1.0	<1.0	ug/l		10ug/l	no
	BH3	Bromodichloromethane		Annual	<1.0	<1.0	ug/l			no
	BH3	Bromoform		Annual	<1.0	<1.0	ug/l			no
	BH3	Chloroform		Annual	<1.0	<1.0	ug/l		12ug/l	no
	BH3	Chrysene		Annual	<1.0	<1.0	ug/l			no
	BH3	Dibromochloromethane		Annual	<2.0	<2.0	ug/l			no
	BH3	Fluoranthene		Annual	<1.0	<1.0	ug/l			no
	BH3	Fluorene		Annual	<1.0	<1.0	ug/l			no
	BH3	Naphthalene		Annual	<1.0	<1.0	ug/l			no
	BH3	Dibromochloromethane		Annual	<1.0	<1.0	ug/l			no
	BH3	Pentachlorophenol		Annual	<1.0	<1.0	ug/l		2.0ug/l	no
	BH3	Phenanthrene		Annual	<1.0	<1.0	ug/l			no
	BH3	Pyrene		Annual	<1.0	<1.0	ug/l			no
	BH3	Tetrachloroethene		Annual	<1.0	<1.0	ug/l			no
	BH3	Trichloroethene		Annual	<1.0	<1.0	ug/l			no
	BH3	Hexachlorobenzene		Annual	<1.0	<1.0	ug/l		0.03ug/l	no
	BH3	Hexachlorobutadiene		Annual	<1.0	<1.0	ug/l		0.10ug/l	no
	BH3	2,4,6-Trichlorophenol		Annual	<1.0	<1.0	ug/l			no
	BH3	2,4-Dichlorophenol		Annual	<1.0	<1.0	ug/l			no
	BH3	2,4-Dimethylphenol		Annual	<1.0	<1.0	ug/l			no
	BH3	2-Chlorophenol		Annual	<1.0	<1.0	ug/l			no

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	BH3	1,2,4-trichlorobenzene		Annual	<1.0	<1.0	ug/l		0.40ug/l	no
	BH3	1,2-dichlorobenzene		Annual	<1.0	<1.0	ug/l			no
	BH3	1,3-dichlorobenzene		Annual	<1.0	<1.0	ug/l			no
	BH3	1,4-dichlorobenzene		Annual	<1.0	<1.0	ug/l			no
	BH3	2,4,5-Trichlorophenol		Annual	<1.0	<1.0	ug/l			no
	BH3	2,4-Dinitrotoluene		Annual	<1.0	<1.0	ug/l			no
	BH3	2,6-Dinitrotoluene		Annual	<1.0	<1.0	ug/l			no
	BH3	2-Chloronaphthalene		Annual	<1.0	<1.0	ug/l			no
	BH3	2-Methylnaphthalene		Annual	<1.0	<1.0	ug/l			no
	BH3	2-Methylphenol		Annual	<1.0	<1.0	ug/l			no
	BH3	2-Nitrophenol		Annual	<1.0	<1.0	ug/l			no
	BH3	4-Bromophenyl Phenyl Ether		Annual	<5.0	<5.0	ug/l			no
	BH3	4-Chloro-3-methylphenol		Annual	<1.0	<1.0	ug/l			no
	BH3	4-Chlorophenyl phenyl ether		Annual	<1.0	<1.0	ug/l			no
	BH3	4-Nitrophenol		Annual	<1.0	<1.0	ug/l			no
	BH3	Acenaphthene		Annual	<1.0	<1.0	ug/l			no
	BH3	Benzo(a)anthracene		Annual	<1.0	<1.0	ug/l			no
	BH3	Benzo(a)pyrene		Annual	<1.0	<1.0	ug/l			no
	BH3	Benzo(b)fluoranthene		Annual	<1.0	<1.0	ug/l			no
	BH3	Benzo(g,h,i)perylene		Annual	<1.0	<1.0	ug/l			no
	BH3	Benzyl Butyl Phthalate		Annual	<1.0	<1.0	ug/l			no
	BH3	Bis(2-chloroethoxy)methane		Annual	<5.0	<5.0	ug/l			no
	BH3	Bis(2-chloroethyl)ether		Annual	<1.0	<1.0	ug/l			no
	BH3	Bis(2-chloroisopropyl)ether		Annual	<1.0	<1.0	ug/l			no
	BH3	Bis(2-ethylhexyl)phthalate		Annual	<1.0	<1.0	ug/l			no
	BH3	Dibenz(a,h)anthracene		Annual	<1.0	<1.0	ug/l			no
	BH3	Dibenzofuran		Annual	<1.0	<1.0	ug/l			no
	BH3	Diethylphthalate		Annual	<1.0	<1.0	ug/l			no
	BH3	di-n-Butylphthalate		Annual	<1.0	<1.0	ug/l			no

Groundwater/Soil monitoring template				Lic No:	W0022-01				Year	2014	
	BH3	Di-n-octylphthalate		Annual	<1.0	<1.0	ug/l				no
	BH3	Diphenylamine		Annual	<1.0	<1.0	ug/l				no
	BH3	Hexachloroethane		Annual	<1.0	<1.0	ug/l				no
	BH3	Indeno(1,2,3-c,d)pyrene		Annual	<1.0	<1.0	ug/l				no
	BH3	Isophorone		Annual	<1.0	<1.0	ug/l				no
	BH3	Nitrobenzene		Annual	<1.0	<1.0	ug/l				no
	BH3	n-Nitrosodi-n-propylamine		Annual	<1.0	<1.0	ug/l				no
	BH3	Acetone		Annual	<1.0	<1.0	ug/l				no
	BH3	Dichloromethane		Annual	<1.0	<1.0	ug/l			10ug/l	no
	BH3	Tetrahydrofuran		Annual	<1.0	<1.0	ug/l				no
	BH3	Toluene		Annual	<1.0	<1.0	ug/l			10ug/l	no
	BH3	Xylene -o		Annual	<1.0	<1.0	ug/l			10ug/l	no
	BH3	Dichlorodifluoromethane		Annual	<0.5	<0.5	ug/l				no
	BH3	Chloromethane		Annual	<1.0	<1.0	ug/l				no
	BH3	Ethyl Chloride/Chloroethane		Annual	<1.0	<1.0	ug/l				no
	BH3	Vinyl Chloride		Annual	<1.0	<1.0	ug/l				no
	BH3	Bromomethane		Annual	<1.0	<1.0	ug/l				no
	BH3	Trichloromonofluoromethane		Annual	<1.0	<1.0	ug/l				no
	BH3	Ethyl Ether/Diethyl Ether		Annual	<1.0	<1.0	ug/l				no
	BH3	11 Dichloroethene		Annual	<1.0	<1.0	ug/l				no
	BH3	Iodomethane/Methyl Iodide		Annual	<1.0	<1.0	ug/l				no
	BH3	Carbon Disulphide		Annual	<1.0	<1.0	ug/l				no
	BH3	Allyl Chloride		Annual	<1.0	<1.0	ug/l				no
	BH3	Chlormethyl Cyanide/Chloroacetonitrile		Annual	<1.0	<1.0	ug/l				no
	BH3	Propanenitrile		Annual	<1.0	<1.0	ug/l				no
	BH3	Trans-1,2 Dichloroethene		Annual	<1.0	<1.0	ug/l				no
	BH3	MtBE		Annual	<1.0	<1.0	ug/l				no
	BH3	1,1-dichloroethane		Annual	<1.0	<1.0	ug/l				no
	BH3	2,2-dichloropropane		Annual	<1.0	<1.0	ug/l				no
	BH3	cis-12 Dichloroethene		Annual	<1.0	<1.0	ug/l				no
	BH3	2-Butanone		Annual	<1.0	<1.0	ug/l				no
	BH3	Methyl Acrylate		Annual	<1.0	<1.0	ug/l				no
	BH3	Bromochloromethane		Annual	<1.0	<1.0	ug/l				no
	BH3	Methacrylonitrile		Annual	<1.0	<1.0	ug/l				no
	BH3	1,1,1-trichloroethane		Annual	<1.0	<1.0	ug/l			500ug/l	no

Groundwater/Soil monitoring template			Lic No:	W0022-01			Year	2014	
	BH3	1-Chlorobutane	Annual	<1.0	<1.0	ug/l			no
	BH3	Carbon Tetrachloride	Annual	<1.0	<1.0	ug/l			no
	BH3	11 Dichloropropene	Annual	<1.0	<1.0	ug/l			no
	BH3	1,2 dicloroethane	Annual	<1.0	<1.0	ug/l		10ug/l	no
	BH3	1,2-dichloropropane	Annual	<1.0	<1.0	ug/l			no
	BH3	Dibromomethane	Annual	<1.0	<1.0	ug/l			no
	BH3	Methyl Methacrylate	Annual	<1.0	<1.0	ug/l			no
	BH3	13 Dichloropropene,cis	Annual	<1.0	<1.0	ug/l			no
	BH3	MIBK/4 Methyl 2 Pentanone	Annual	<1.0	<1.0	ug/l			no
	BH3	13 Dichloropropene,trans	Annual	<1.0	<1.0	ug/l			no
	BH3	Ethyl Methacrylate	Annual	<1.0	<1.0	ug/l			no
	BH3	112 Trichloroethane	Annual	<1.0	<1.0	ug/l			no
	BH3	1,3-dichloropropane	Annual	<1.0	<1.0	ug/l			no
	BH3	2-Hexanone	Annual	<1.0	<1.0	ug/l			no
	BH3	1,2-dibromoethane	Annual	<1.0	<1.0	ug/l			no
	BH3	Chlorobenzene	Annual	<1.0	<1.0	ug/l		1.0ug/l	no
	BH3	1,1,1,2-tetrachloroethane	Annual	<1.0	<1.0	ug/l			no
	BH3	Ethylbenzene	Annual	<1.0	<1.0	ug/l		10ug/l	no
	BH3	Xylene P&M	Annual	<1.0	<1.0	ug/l			no
	BH3	Styrene	Annual	<1.0	<1.0	ug/l			no
	BH3	Isopropylbenzene	Annual	<1.0	<1.0	ug/l			no
	BH3	Bromobenzene	Annual	<1.0	<1.0	ug/l			no
	BH3	1,1,2,2-tetrachloroethane	Annual	<1.0	<1.0	ug/l			no
	BH3	1,2,3-trichloropropane	Annual	<1.0	<1.0	ug/l			no
	BH3	Trans 14 Dichloro 2 Butene, tran	Annual	<1.0	<1.0	ug/l			no
	BH3	Propylbenzene	Annual	<1.0	<1.0	ug/l			no
	BH3	2-chlorotoluene	Annual	<1.0	<1.0	ug/l			no
	BH3	4-chlorotoluene	Annual	<1.0	<1.0	ug/l			no
	BH3	1,3,5-trimethylbenzene	Annual	<1.0	<1.0	ug/l			no
	BH3	Tert Butyl Benzene	Annual	<1.0	<1.0	ug/l			no

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	BH3	1,2,4-trimethylbenzene		Annual	<1.0	<1.0	ug/l			no
	BH3	sec-butylbenzene		Annual	<1.0	<1.0	ug/l			no
	BH3	P Isopropyltoluene		Annual	<1.0	<1.0	ug/l			no
	BH3	N Butyl Benzene		Annual	<1.0	<1.0	ug/l			no
	BH3	1,2-dibromo-3-chloropropane		Annual	<1.0	<1.0	ug/l			no
	BH3	1,2,3-trichlorobenzene		Annual	<1.0	<1.0	ug/l			no
	BH3	VOC		Annual	1	1	ug/l			no
	BH3	SVOC		Annual	<2.0	<2.0	ug/l			no
	BH3	OPP		Annual	<0.005	<0.005	ug/l			no
	BH3	OCP		Annual	<10	<10	ng/l			
	BH3	Total pesticides		Annual	<0.05	<0.05	ug/l			
Quarterly	**BH4**	**pH**	**meter**	**Quarterly**		**7.9**	**SELECT**		**9.5**	**no**
	BH4	Temp	meter	Quarterly			SELECT			no
	BH4	Elec.Conductivity	meter	Quarterly		17.1	mS/cm		1000	no
	BH4	Chlorides	titration	Quarterly		7941			250	no
	BH4	Ammoniacal Nitorgen	ise meter	Quarterly		1.9	mg/l		0.02	no
	BH4	Iron		Annual		5.5	ug/l		1	no
	BH4	TON		Quarterly		<0.1	mg/l			no
	BH4	TOC	Hach	Quarterly		112	mg/l			no
Annual	BH4	Cadmium		Annual	0.9	3074	ug/l		0.005mg/l	no
	BH4	Chromium (total)		Annual	2	2	ug/l		0.03mg/l	no
	BH4	Copper		Annual	6	6	ug/l		0.03mg/l	no
	BH4	Cyanide (Total)		Annual			ug/l		0.01mg/l	no
	BH4	Lead		Annual	41	41	ug/l		0.01mg/l	no
	BH4	Mangnesium		Annual	1388	1388	mg/l			no
	BH4	Manganese		Annual	1214	1214	ug/l		0.3mg/l	no
	BH4	Mercury		Annual			ug/l		0.001mg/l	no
	BH4	Potassium		Quarterly	1231	1231	mg/l		5mg/l	no
	BH4	Sodium		Quarterly						no
	BH4	Sulphate		Annual			mg/l		200mg/l	no
	BH4	Total Alkalinity		Annual	<1.0	<1.0	mg/l			no
	BH4	Total Phosphorus		Annual	<1.0	<1.0	mg/l			no
	BH4	Arsenic		Annual	4	4	ug/l			
	BH4	Barium, total		Annual	235	235	ug/l			
	BH4	Boron, total		Annual	2.69	2.69	mg/l			
	BH4	Selenium, total		Annual	1	1				
	BH4	Silver		Annual	0.004	0.004	mg/l			
	BH4	Tellurium, total		Annual	<0.5	<0.5	ug/l			
	BH4	Thallium, total		Annual	<0.5	<0.5	ug/l			
	BH4	Vanadium, total		Annual	<0.5	<0.5				

Groundwater/Soil monitoring template				Lic No:	W0022-01			Year	2014	
	BH4	Phenols		Annual	<1.0	<1.0	ug/l		0.5ug/l	no
	BH4	Acenaphthylene		Annual	<1.0	<1.0	ug/l			no
	BH4	Anthracene		Annual	<1.0	<1.0	ug/l			no
	BH4	Benzene		Annual	<1.0	<1.0	ug/l		10ug/l	no
	BH4	Bromodichloromethane		Annual	<1.0	<1.0	ug/l			no
	BH4	Bromoform		Annual	<1.0	<1.0	ug/l		12ug/l	no
	BH4	Chloroform		Annual	<1.0	<1.0	ug/l		12ug/l	no
	BH4	Chrysene		Annual	<1.0	<1.0	ug/l			no
	BH4	Dibromochloromethane		Annual	<1.0	<1.0	ug/l			no
	BH4	Fluoranthene		Annual	<2.0	<2.0	ug/l			no
	BH4	Fluorene		Annual	<1.0	<1.0	ug/l			no
	BH4	Naphthalene		Annual	<1.0	<1.0	ug/l			no
	BH4	Dibromochloromethane		Annual	<1.0	<1.0	ug/l			no
	BH4	Pentachlorophenol		Annual	<1.0	<1.0	ug/l		2.0ug/l	no
	BH4	Phenanthrene		Annual	<1.0	<1.0	ug/l			no
	BH4	Pyrene		Annual	<1.0	<1.0	ug/l			no
	BH4	Tetrachloroethene		Annual	<1.0	<1.0	ug/l			no
	BH4	Trichloroethene		Annual	<1.0	<1.0	ug/l			no
	BH4	Hexachlorobenzene		Annual	<1.0	<1.0	ug/l		0.03ug/l	no
	BH4	Hexachlorobutadiene		Annual	<1.0	<1.0	ug/l		0.10ug/l	no
	BH4	2,4,6-Trichlorophenol		Annual	<1.0	<1.0	ug/l			no
	BH4	2,4-Dichlorophenol		Annual	<1.0	<1.0	ug/l			no
	BH4	2,4-Dimethylphenol		Annual	<1.0	<1.0	ug/l			no
	BH4	2-Chlorophenol		Annual	<1.0	<1.0	ug/l			no
	BH4	1,2,4-trichlorobenzene		Annual	<1.0	<1.0	ug/l			no
	BH4	1,2-dichlorobenzene		Annual	<1.0	<1.0	ug/l			no
	BH4	1,3-dichlorobenzene		Annual	<1.0	<1.0	ug/l			no
	BH4	1,4-dichlorobenzene		Annual	<1.0	<1.0	ug/l			no
	BH4	2,4,5-Trichlorophenol		Annual	<1.0	<1.0	ug/l			no
	BH4	2,4-Dinitrotoluene		Annual	<1.0	<1.0	ug/l			no
	BH4	2,6-Dinitrotoluene		Annual	<1.0	<1.0	ug/l			no
	BH4	2-Chloronaphthalene		Annual	<1.0	<1.0	ug/l			no

Groundwater/Soil monitoring template				Lic No:	W0022-01			Year	2014	
	BH4	2-Methylnaphthalene		Annual	<1.0	<1.0	ug/l			no
	BH4	2-Methylphenol		Annual	<1.0	<1.0	ug/l			no
	BH4	2-Nitrophenol		Annual	<1.0	<1.0	ug/l			no
	BH4	4-Bromophenyl Phenyl Ether		Annual	<1.0	<1.0	ug/l			no
	BH4	4-Chloro-3-methylphenol		Annual	<5.0	<5.0	ug/l			no
	BH4	4-Chlorophenyl phenyl ether		Annual	<1.0	<1.0	ug/l			no
	BH4	4-Nitrophenol		Annual	<1.0	<1.0	ug/l			no
	BH4	Acenaphthene		Annual	<1.0	<1.0	ug/l			no
	BH4	Benzo(a)anthracene		Annual	<1.0	<1.0	ug/l			no
	BH4	Benzo(a)pyrene		Annual	<1.0	<1.0	ug/l			no
	BH4	Benzo(b)fluoranthene		Annual	<1.0	<1.0	ug/l			no
	BH4	Benzo(g,h,i)perylene		Annual	<1.0	<1.0	ug/l			no
	BH4	Benzyl Butyl Phthalate		Annual	<1.0	<1.0	ug/l			no
	BH4	Bis(2-chloroethoxy)methane		Annual	<1.0	<1.0	ug/l			no
	BH4	Bis(2-chloroethyl)ether		Annual	<5.0	<5.0	ug/l			no
	BH4	Bis(2-chloroisopropyl)ether		Annual	<1.0	<1.0	ug/l			no
	BH4	Bis(2-ethylhexyl)phthalate		Annual	<1.0	<1.0	ug/l			no
	BH4	Dibenz(a,h)anthracene		Annual	<1.0	<1.0	ug/l			no
	BH4	Dibenzofuran		Annual	<1.0	<1.0	ug/l			no
	BH4	Diethylphthalate		Annual	<1.0	<1.0	ug/l			no
	BH4	di-n-Butylphthalate		Annual	<1.0	<1.0	ug/l			no
	BH4	Di-n-octylphthalate		Annual	<1.0	<1.0	ug/l			no
	BH4	Diphenylamine		Annual	<1.0	<1.0	ug/l			no
	BH4	Hexachloroethane		Annual	<1.0	<1.0	ug/l			no
	BH4	Indeno(1,2,3-c,d)pyrene		Annual	<1.0	<1.0	ug/l			no
	BH4	Isophorone		Annual	<1.0	<1.0	ug/l			no
	BH4	Nitrobenzene		Annual	<1.0	<1.0	ug/l			no
	BH4	n-Nitrosodi-n-propylamine		Annual	<1.0	<1.0	ug/l			no
	BH4	Acetone		Annual	<1.0	<1.0	ug/l			no
	BH4	Dichloromethane		Annual	<1.0	<1.0	ug/l		10ug/l	no
	BH4	Tetrahydrofuran		Annual	<1.0	<1.0	ug/l			no
	BH4	Toluene		Annual	<1.0	<1.0	ug/l			no
	BH4	Xylene -o		Annual	<1.0	<1.0	ug/l		10ug/l	no
	BH4	Dichlorodifluoromethane		Annual	<1.0	<1.0	ug/l			no

Groundwater/Soil monitoring template				Lic No:	W0022-01			Year	2014	
	BH4	Chloromethane		Annual	<0.5	<0.5	ug/l			no
	BH4	Ethyl Chloride/Chloroethane		Annual	<1.0	<1.0	ug/l			no
	BH4	Vinyl Chloride		Annual	<1.0	<1.0	ug/l			no
	BH4	Bromomethane		Annual	<1.0	<1.0	ug/l			no
	BH4	Trichloromonofluoromethane		Annual	<1.0	<1.0	ug/l			no
	BH4	Ethyl Ether/Diethyl Ether		Annual	<1.0	<1.0	ug/l			no
	BH4	11 Dichloroethene		Annual	<1.0	<1.0	ug/l			no
	BH4	Iodomethane/Methyl Iodide		Annual	<1.0	<1.0	ug/l			no
	BH4	Carbon Disulphide		Annual	<1.0	<1.0	ug/l			no
	BH4	Allyl Chloride		Annual	<1.0	<1.0	ug/l			no
	BH4	Chlormethyl Cyanide/Chloroacetonitrile		Annual	<1.0	<1.0	ug/l			no
	BH4	Propanenitrile		Annual	<1.0	<1.0	ug/l			no
	BH4	Trans-1,2 Dichloroethene		Annual	<1.0	<1.0	ug/l			no
	BH4	MtBE		Annual	<1.0	<1.0	ug/l			no
	BH4	1,1-dichloroethane		Annual	<1.0	<1.0	ug/l			no
	BH4	2,2-dichloropropane		Annual	<1.0	<1.0	ug/l			no
	BH4	cis-12 Dichloroethene		Annual	<1.0	<1.0	ug/l			no
	BH4	2-Butanone		Annual	<1.0	<1.0	ug/l			no
	BH4	Methyl Acrylate		Annual	<1.0	<1.0	ug/l			no
	BH4	Bromochloromethane		Annual	<1.0	<1.0	ug/l			no
	BH4	Methacrylonitrile		Annual	<1.0	<1.0	ug/l			no
	BH4	1,1,1-trichloroethane		Annual	<1.0	<1.0	ug/l			no
	BH4	1-Chlorobutane		Annual	<1.0	<1.0	ug/l			no
	BH4	Carbon Tetrachloride		Annual	<1.0	<1.0	ug/l			no
	BH4	11 Dichloropropene		Annual	<1.0	<1.0	ug/l			no
	BH4	1,2 dicloroethane		Annual	<1.0	<1.0	ug/l			no
	BH4	1,2-dichloropropane		Annual	<1.0	<1.0	ug/l		10ug/l	no
	BH4	Dibromomethane		Annual	<1.0	<1.0	ug/l			no
	BH4	Methyl Methacrylate		Annual	<1.0	<1.0	ug/l			no
	BH4	13 Dichloropropene,cis		Annual	<1.0	<1.0	ug/l			no
	BH4	MIBK/4 Methyl 2 Pentanone		Annual	<1.0	<1.0	ug/l			no

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	BH4	13 Dichloropropene,trans		Annual	<1.0	<1.0	ug/l			no
	BH4	Ethyl Methacrylate		Annual	<1.0	<1.0	ug/l			no
	BH4	112 Trichloroethane		Annual	<1.0	<1.0	ug/l			no
	BH4	1,3-dichloropropane		Annual	<1.0	<1.0	ug/l			no
	BH4	2-Hexanone		Annual	<1.0	<1.0	ug/l			no
	BH4	1,2-dibromoethane		Annual	<1.0	<1.0	ug/l			no
	BH4	Chlorobenzene		Annual	<1.0	<1.0	ug/l		1.0ug/l	no
	BH4	1,1,1,2-tetrachloroethane		Annual	<1.0	<1.0	ug/l			no
	BH4	Ethylbenzene		Annual	<1.0	<1.0	ug/l		10ug/l	no
	BH4	Xylene P&M		Annual	<1.0	<1.0	ug/l			no
	BH4	Styrene		Annual	<1.0	<1.0	ug/l			no
	BH4	Isopropylbenzene		Annual	<1.0	<1.0	ug/l			no
	BH4	Bromobenzene		Annual	<1.0	<1.0	ug/l			no
	BH4	1,1,2,2-tetrachloroethane		Annual	<1.0	<1.0	ug/l			no
	BH4	1,2,3-trichloropropane		Annual	<1.0	<1.0	ug/l			no
	BH4	Trans 14 Dichloro 2 Butene, tran		Annual	<1.0	<1.0	ug/l			no
	BH4	Propylbenzene		Annual	<1.0	<1.0	ug/l			no
	BH4	2-chlorotoluene		Annual	<1.0	<1.0	ug/l			no
	BH4	4-chlorotoluene		Annual	<1.0	<1.0	ug/l			no
	BH4	1,3,5-trimethylbenzene		Annual	<1.0	<1.0	ug/l			no
	BH4	Tert Butyl Benzene		Annual	<1.0	<1.0	ug/l			no
	BH4	1,2,4-trimethylbenzene		Annual	<1.0	<1.0	ug/l			no
	BH4	sec-butylbenzene		Annual	<1.0	<1.0	ug/l			no
	BH4	P Isopropyltoluene		Annual	<1.0	<1.0	ug/l			no
	BH4	N Butyl Benzene		Annual	<1.0	<1.0	ug/l			no
	BH4	1,2-dibromo-3-chloropropane		Annual	<1.0	<1.0	ug/l			no
	BH4	1,2,3-trichlorobenzene		Annual	<1.0	<1.0	ug/l			no
	BH4	VOC		Annual	<2.0		ug/l			no
	BH4	SVOC		Annual	<5.0		ug/l			no
		OPP		Annual	<0.005		ug/l			
		OCP		Annual	<10		ng/l			

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	BH4	Total pesticides		Annual	<0.05		ug/l			no
Quarterly	**BH5**	**pH**		**Quarterly**	**Dry**	**Dry**	**SELECT**			**no**
	BH5	Temp		Quarterly	Dry	Dry	SELECT		9.5	no
	BH5	Elec.Conductivity		Quarterly	Dry	Dry	SELECT		1000	no
	BH5	Chlorides		Quarterly	Dry	Dry			250	no
	BH5	Ammoniacal Nitorgen		Quarterly	Dry	Dry	mg/l		0.02	no
	BH5	Iron		Annual	Dry	Dry	ug/l		0.02	no
	BH5	TON		Quarterly	Dry	Dry	mg/l			no
	BH5	TOC		Quarterly	Dry	Dry	mg/l			no
Annual	BH5	Annual		Annual	NO RESULTS	No Results	ug/l			no
					Dry	Dry				

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.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	IGV	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
Quarterly	**BH1**	**pH**	**METER**	**Quarterly**			**SELECT**		**9.5**	**no**
	BH1	Temp	METER	Quarterly		7	SELECT			no
	BH1	Elec.Conductivity	METER	Quarterly		6.7	mS/um		1000	no
	BH1	Chlorides	TITRATION	Quarterly		1948.8	mg/l		250	no
	BH1	Ammoniacal Nitorgen	ISE METER	Quarterly		3.3	mg/l		0.02	no
	BH1	TON		Quarterly		3	mg/l			no
	BH1	TOC	HACH	Quarterly		<0.1	mg/l			no
	BH1	Potassium		Quarterly		57.7	mg/l		5mg/l	
	BH1	Sodium		Quarterly		1014.8				
Annual	**BH1**	**Iron**		**Annual**			**ug/l**			
	BH1	Cadmium		Annual	<0.5		ug/l		0.005mg/l	no
	BH1	Chromium (total)		Annual	1		ug/l		0.03mg/l	no
	BH1	Copper		Annual	3		ug/l		0.03mg/l	no
	BH1	Cyanide (Total)		Annual	<0.0009		ug/l		0.01mg/l	no
	BH1	Lead		Annual	80		ug/l		0.01mg/l	no
	BH1	Mangnesium		Annual	983		mg/l			no
	BH1	Manganese		Annual	6392		ug/l		0.3mg/l	no
	BH1	Mercury		Annual	<0.05		ug/l		0.001mg/l	no
	BH1	Sulphate		Annual	806		mg/l		200mg/l	no
	BH1	Total Alkalinity		Annual			mg/l			no
	BH1	Total Phosphorus		Annual			mg/l			no
	BH1	Arsenic		Annual	2		ug/l			
	BH1	Barium, total		Annual	1654		ug/l			
	BH1	Boron, total		Annual	1.54		mg/l			
	BH1	Selenium, total		Annual	<0.5		ug/l			
	BH1	Silver		Annual	0.0024		mg/l			
	BH1	Tellurium, total		Annual	<0.5		ug/l			
	BH1	Thallium, total		Annual	<0.5		ug/l			
	BH1	Vanadium, total		Annual	<0.5		ug/l			
	BH1	Phenols		Annual	<1.0		ug/l		0.5ug/l	no
	BH1	Acenaphthylene		Annual	<1.0		ug/l			no
	BH1	Anthracene		Annual	<1.0		ug/l			no
	BH1	Benzene		Annual	<1.0		ug/l		10ug/l	no
	BH1	Bromodichloromethane		Annual	<1.0		ug/l			no
	BH1	Bromoform		Annual	<1.0		ug/l		12ug/l	no

Groundwater/Soil monitoring template			Lic No:	W0022-01		Year	2014			
	BH1	Chloroform		Annual	<1.0		ug/l		12ug/l	no
	BH1	Chrysene		Annual	<1.0		ug/l			no
	BH1	Dibromochloromethane		Annual	<1.0		ug/l			no
	BH1	Fluoranthene		Annual	<1.0		ug/l			no
	BH1	Fluorene		Annual	<1.0		ug/l			no
	BH1	Naphthalene		Annual	<2.0		ug/l			no
	BH1	Dibromochloromethane		Annual	<1.0		ug/l			no
	BH1	Pentachlorophenol		Annual	<1.0		ug/l		2.0ug/l	no
	BH1	Phenanthrene		Annual	<1.0		ug/l			no
	BH1	Pyrene		Annual	<1.0		ug/l			no
	BH1	Tetrachloroethene		Annual	<1.0		ug/l			no
	BH1	Trichloroethene		Annual	<1.0		ug/l			no
	BH1	Hexachlorobenzene		Annual	<1.0		ug/l		0.03ug/l	no
	BH1	Hexachlorobutadiene		Annual	<1.0		ug/l		0.10ug/l	no
	BH1	2,4,6-Trichlorophenol		Annual	<1.0		ug/l			no
	BH1	2,4-Dichlorophenol		Annual	<1.0		ug/l			no
	BH1	2,4-Dimethylphenol		Annual	<1.0		ug/l			no
	BH1	2-Chlorophenol		Annual	<1.0		ug/l			no
	BH1	1,2,4-trichlorobenzene		Annual	<1.0		ug/l			no
	BH1	1,2-dichlorobenzene		Annual	<1.0		ug/l			no
	BH1	1,3-dichlorobenzene		Annual	<1.0		ug/l			no
	BH1	1,4-dichlorobenzene		Annual	<1.0		ug/l			no
	BH1	2,4,5-Trichlorophenol		Annual	<1.0		ug/l			no
	BH1	2,4-Dinitrotoluene		Annual	<1.0		ug/l			no
	BH1	2,6-Dinitrotoluene		Annual	<1.0		ug/l			no
	BH1	2-Chloronaphthalene		Annual	<1.0		ug/l			no
	BH1	2-Methylnaphthalene		Annual	<1.0		ug/l			no
	BH1	2-Methylphenol		Annual	<1.0		ug/l			no
	BH1	2-Nitrophenol		Annual	<1.0		ug/l			no
	BH1	4-Bromophenyl Phenyl Ether		Annual	<1.0		ug/l			no
	BH1	4-Chloro-3-methylphenol		Annual	<1.0		ug/l			no

Groundwater/Soil monitoring template				Lic No:	W0022-01			Year	2014	
	BH1	4-Chlorophenyl phenyl ether		Annual	<1.0		ug/l			no
	BH1	4-Nitrophenol		Annual	<5.0		ug/l			no
	BH1	Acenaphthene		Annual	<1.0		ug/l			no
	BH1	Benzo(a)anthracene		Annual	<1.0		ug/l			no
	BH1	Benzo(a)pyrene		Annual	<1.0		ug/l			no
	BH1	Benzo(b)fluoranthene		Annual	<1.0		ug/l			no
	BH1	Benzo(g,h,i)perylene		Annual	<1.0		ug/l			no
	BH1	Benzyl Butyl Phthalate		Annual	<1.0		ug/l			no
	BH1	Bis(2-chloroethoxy)methane		Annual	<1.0		ug/l			no
	BH1	Bis(2-chloroethyl)ether		Annual	<1.0		ug/l			no
	BH1	Bis(2-chloroisopropyl)ether		Annual	<1.0		ug/l			no
	BH1	Bis(2-ethylhexyl)phthalate		Annual	<5.0		ug/l			no
	BH1	Dibenz(a,h)anthracene		Annual	<1.0		ug/l			no
	BH1	Dibenzofuran		Annual	<1.0		ug/l			no
	BH1	Diethylphthalate		Annual	<1.0		ug/l			no
	BH1	di-n-Butylphthalate		Annual	<1.0		ug/l			no
	BH1	Di-n-octylphthalate		Annual	<1.0		ug/l			no
	BH1	Diphenylamine		Annual	<1.0		ug/l			no
	BH1	Hexachloroethane		Annual	<1.0		ug/l			no
	BH1	Indeno(1,2,3-c,d)pyrene		Annual	<1.0		ug/l			no
	BH1	Isophorone		Annual	<1.0		ug/l			no
	BH1	Nitrobenzene		Annual	<1.0		ug/l			no
	BH1	n-Nitrosodi-n-propylamine		Annual	<1.0		ug/l			no
	BH1	Acetone		Annual	<1.0		ug/l			no
	BH1	Dichloromethane		Annual	<1.0		ug/l		10ug/l	no
	BH1	Tetrahydrofuran		Annual	<1.0		ug/l			no
	BH1	Toluene		Annual	<1.0		ug/l			no
	BH1	Xylene -o		Annual	<1.0		ug/l		10ug/l	no
	BH1	Dichlorodifluoromethane		Annual	<1.0		ug/l			no
	BH1	Chloromethane		Annual	<1.0		ug/l			no
	BH1	Ethyl Chloride/Chloroethane		Annual	<1.0		ug/l			no
	BH1	Vinyl Chloride		Annual	<0.5		ug/l			no
	BH1	Bromomethane		Annual	<1.0		ug/l			no
	BH1	Trichloromonofluoromethane		Annual	<1.0		ug/l			no

Groundwater/Soil monitoring template				Lic No:	W0022-01			Year	2014	
	BH1	Ethyl Ether/Diethyl Ether		Annual	<1.0		ug/l			no
	BH1	11 Dichloroethene		Annual	<1.0		ug/l			no
	BH1	Iodomethane/Methyl Iodide		Annual	<1.0		ug/l			no
	BH1	Carbon Disulphide		Annual	<1.0		ug/l			no
	BH1	Allyl Chloride		Annual	<1.0		ug/l			no
	BH1	Chlormethyl Cyanide/Chloroacetonitrile		Annual	<1.0		ug/l			no
	BH1	Propanenitrile		Annual	<1.0		ug/l			no
	BH1	Trans-1,2 Dichloroethene		Annual	<1.0		ug/l			no
	BH1	MtBE		Annual	<1.0		ug/l			no
	BH1	1,1-dichloroethane		Annual	<1.0		ug/l			no
	BH1	2,2-dichloropropane		Annual	<1.0		ug/l			no
	BH1	cis-12 Dichloroethene		Annual	<1.0		ug/l			no
	BH1	2-Butanone		Annual	<1.0		ug/l			no
	BH1	Methyl Acrylate		Annual	<1.0		ug/l			no
	BH1	Bromochloromethane		Annual	<1.0		ug/l			no
	BH1	Methacrylonitrile		Annual	<1.0		ug/l			no
	BH1	1,1,1-trichloroethane		Annual	<1.0		ug/l			no
	BH1	1-Chlorobutane		Annual	<1.0		ug/l			no
	BH1	Carbon Tetrachloride		Annual	<1.0		ug/l			no
	BH1	11 Dichloropropene		Annual	<1.0		ug/l			no
	BH1	1,2 dicloroethane		Annual	<1.0		ug/l			no
	BH1	1,2-dichloropropane		Annual	<1.0		ug/l		10ug/l	no
	BH1	Dibromomethane		Annual	<1.0		ug/l			no
	BH1	Methyl Methacrylate		Annual	<1.0		ug/l			no
	BH1	13 Dichloropropene,cis		Annual	<1.0		ug/l			no
	BH1	MIBK/4 Methyl 2 Pentanone		Annual	<1.0		ug/l			no
	BH1	13 Dichloropropene,trans		Annual	<1.0		ug/l			no
	BH1	Ethyl Methacrylate		Annual	<1.0		ug/l			no
	BH1	112 Trichloroethane		Annual	<1.0		ug/l			no
	BH1	1,3-dichloropropane		Annual	<1.0		ug/l			no

Groundwater/Soil monitoring template				Lic No:	W0022-01			Year	2014	
	BH1	2-Hexanone		Annual	<1.0		ug/l			no
	BH1	1,2-dibromoethane		Annual	<1.0		ug/l			no
	BH1	Chlorobenzene		Annual	<1.0		ug/l		1.0ug/l	no
	BH1	1,1,1,2-tetrachloroethane		Annual	<1.0		ug/l			no
	BH1	Ethylbenzene		Annual	<1.0		ug/l		10ug/l	no
	BH1	Xylene P&M		Annual	<1.0		ug/l			no
	BH1	Styrene		Annual	<1.0		ug/l			no
	BH1	Isopropylbenzene		Annual	<1.0		ug/l			no
	BH1	Bromobenzene		Annual	<1.0		ug/l			no
	BH1	1,1,2,2-tetrachloroethane		Annual	<1.0		ug/l			no
	BH1	1,2,3-trichloropropane		Annual	<1.0		ug/l			no
	BH1	Trans 14 Dichloro 2 Butene, tran		Annual	<1.0		ug/l			no
	BH1	Propylbenzene		Annual	<1.0		ug/l			no
	BH1	2-chlorotoluene		Annual	<1.0		ug/l			no
	BH1	4-chlorotoluene		Annual	<1.0		ug/l			no
	BH1	1,3,5-trimethylbenzene		Annual	<1.0		ug/l			no
	BH1	Tert Butyl Benzene		Annual	<1.0		ug/l			no
	BH1	1,2,4-trimethylbenzene		Annual	<1.0		ug/l			no
	BH1	sec-butylbenzene		Annual	<1.0		ug/l			no
	BH1	P Isopropyltoluene		Annual	<1.0		ug/l			no
	BH1	N Butyl Benzene		Annual	<1.0		ug/l			no
	BH1	1,2-dibromo-3-chloropropane		Annual	<1.0		ug/l			no
	BH1	1,2,3-trichlorobenzene		Annual	<1.0		ug/l			no
	BH1	VOC		Annual	<2.0		ug/l			no
	BH1	SVOC		Annual	<5.0		ug/l			no
	BH1	OPP		Annual	<0.005		ug/l			no
	BH1	OCP		Annual	<10		ng/l			
	BH1	Total pesticides		Annual	<0.05		ug/l			
Quarterly	**BH2**	**pH**	**METER**	**Quarterly**		**7.4**	**SELECT**		**9.5**	**no**
	BH2	Temp	METER	Quarterly			SELECT			no
	BH2	Elec.Conductivity	METER	Quarterly		574	uS/cm		1000	no
	BH2	Chlorides	TITRATION	Quarterly		19.9			250	no
	BH2	Ammoniacal Nitorgen	ISE METER	Quarterly		<0.1	mg/l		0.02	no

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	BH2	TON		Quarterly		2.5	mg/l			no
	BH2	TOC	HACH	Quarterly		1.1	mg/l			no
	BH2	Potassium		Quarterly		6.8	mg/l		5mg/l	
	BH2	Sodium		Quarterly		20.5				
Annual	BH2	Iron		Annual			ug/l			
	BH2	Cadmium		Annual	<0.5		ug/l		0.005mg/l	no
	BH2	Chromium (total)		Annual	0.6		ug/l		0.03mg/l	no
	BH2	Copper		Annual	2		ug/l		0.03mg/l	no
	BH2	Cyanide (Total)		Annual			ug/l		0.01mg/l	no
	BH2	Lead		Annual	12		ug/l		0.01mg/l	no
	BH2	Mangnesium		Annual	65		mg/l			no
	BH2	Manganese		Annual	14		ug/l		0.3mg/l	no
	BH2	Mercury		Annual			ug/l		0.001mg/l	no
	BH2	Sulphate		Annual	10.8		mg/l		200mg/l	no
	BH2	Total Alkalinity		Annual			mg/l			no
	BH2	Total Phosphorus		Annual			mg/l			no
	BH2	Arsenic		Annual	<0.5	<0.5	ug/l			
	BH2	Barium, total		Annual	1542		ug/l			
	BH2	Boron, total		Annual	0.306		mg/l			
	BH2	Selenium, total		Annual	<0.5					
	BH2	Silver		Annual	<0.0007		mg/l			
	BH2	Tellurium, total		Annual	<0.5	<0.5	ug/l			
	BH2	Thallium, total		Annual	<0.5	<0.5	ug/l			
	BH2	Vanadium, total		Annual	<0.5	<0.5				
	BH2	Phenols		Annual	<1.0		ug/l		0.5ug/l	no
	BH2	Acenaphthylene		Annual	<1.0		ug/l			no
	BH2	Anthracene		Annual	<1.0		ug/l			no
	BH2	Benzene		Annual	<1.0		ug/l		10ug/l	no
	BH2	Bromodichloromethane		Annual	<1.0		ug/l			no
	BH2	Bromoform		Annual	<1.0		ug/l		12ug/l	no
	BH2	Chloroform		Annual	<1.0		ug/l		12ug/l	no
	BH2	Chrysene		Annual	<1.0		ug/l			no
	BH2	Dibromochloromethane		Annual	<1.0		ug/l			no
	BH2	Fluoranthene		Annual	<1.0		ug/l			no
	BH2	Fluorene		Annual	<1.0		ug/l			no
	BH2	Naphthalene		Annual	<2.0		ug/l			no
	BH2	Dibromochloromethane		Annual	<1.0		ug/l			no
	BH2	Pentachlorophenol		Annual	<1.0		ug/l		2.0ug/l	no
	BH2	Phenanthrene		Annual	<1.0		ug/l			no
	BH2	Pyrene		Annual	<1.0		ug/l			no
	BH2	Tetrachloroethene		Annual	<1.0		ug/l			no
	BH2	Trichloroethene		Annual	<1.0		ug/l			no
	BH2	Hexachlorobenzene		Annual	<1.0		ug/l		0.03ug/l	no
	BH2	Hexachlorobutadiene		Annual	<1.0		ug/l		0.10ug/l	no

Groundwater/Soil monitoring template				Lic No:	W0022-01			Year	2014	
	BH2	2,4,6-Trichlorophenol		Annual	<1.0		ug/l			no
	BH2	2,4-Dichlorophenol		Annual	<1.0		ug/l			no
	BH2	2,4-Dimethylphenol		Annual	<1.0		ug/l			no
	BH2	2-Chlorophenol		Annual	<1.0		ug/l			no
	BH2	1,2,4-trichlorobenzene		Annual	<1.0		ug/l			no
	BH2	1,2-dichlorobenzene		Annual	<1.0		ug/l			no
	BH2	1,3-dichlorobenzene		Annual	<1.0		ug/l			no
	BH2	1,4-dichlorobenzene		Annual	<1.0		ug/l			no
	BH2	2,4,5-Trichlorophenol		Annual	<1.0		ug/l			no
	BH2	2,4-Dinitrotoluene		Annual	<1.0		ug/l			no
	BH2	2,6-Dinitrotoluene		Annual	<1.0		ug/l			no
	BH2	2-Chloronaphthalene		Annual	<1.0		ug/l			no
	BH2	2-Methylnaphthalene		Annual	<1.0		ug/l			no
	BH2	2-Methylphenol		Annual	<1.0		ug/l			no
	BH2	2-Nitrophenol		Annual	<1.0		ug/l			no
	BH2	4-Bromophenyl Phenyl Ether		Annual	<1.0		ug/l			no
	BH2	4-Chloro-3-methylphenol		Annual	<1.0		ug/l			no
	BH2	4-Chlorophenyl phenyl ether		Annual	<1.0		ug/l			no
	BH2	4-Nitrophenol		Annual	<5.0		ug/l			no
	BH2	Acenaphthene		Annual	<1.0		ug/l			no
	BH2	Benzo(a)anthracene		Annual	<1.0		ug/l			no
	BH2	Benzo(a)pyrene		Annual	<1.0		ug/l			no
	BH2	Benzo(b)fluoranthene		Annual	<1.0		ug/l			no
	BH2	Benzo(g,h,i)perylene		Annual	<1.0		ug/l			no
	BH2	Benzyl Butyl Phthalate		Annual	<1.0		ug/l			no
	BH2	Bis(2-chloroethoxy)methane		Annual	<1.0		ug/l			no
	BH2	Bis(2-chloroethyl)ether		Annual	<1.0		ug/l			no
	BH2	Bis(2-chloroisopropyl)ether		Annual	<1.0		ug/l			no

Groundwater/Soil monitoring template				Lic No:	W0022-01			Year	2014	
	BH2	Bis(2-ethylhexyl)phthalate		Annual	<5.0		ug/l			no
	BH2	Dibenz(a,h)anthracene		Annual	<1.0		ug/l			no
	BH2	Dibenzofuran		Annual	<1.0		ug/l			no
	BH2	Diethylphthalate		Annual	<1.0		ug/l			no
	BH2	di-n-Butylphthalate		Annual	<1.0		ug/l			no
	BH2	Di-n-octylphthalate		Annual	<1.0		ug/l			no
	BH2	Diphenylamine		Annual	<1.0		ug/l			no
	BH2	Hexachloroethane		Annual	<1.0		ug/l			no
	BH2	Indeno(1,2,3-c,d)pyrene		Annual	<1.0		ug/l			no
	BH2	Isophorone		Annual	<1.0		ug/l			no
	BH2	Nitrobenzene		Annual	<1.0		ug/l			no
	BH2	n-Nitrosodi-n-propylamine		Annual	<1.0		ug/l			no
	BH2	Acetone		Annual	<1.0		ug/l			no
	BH2	Dichloromethane		Annual	<1.0		ug/l		10ug/l	no
	BH2	Tetrahydrofuran		Annual	<1.0		ug/l			no
	BH2	Toluene		Annual	<1.0		ug/l			no
	BH2	Xylene -o		Annual	<1.0		ug/l		10ug/l	no
	BH2	Dichlorodifluoromethane		Annual	<1.0		ug/l			no
	BH2	Chloromethane		Annual	<1.0		ug/l			no
	BH2	Ethyl Chloride/Chloroethane		Annual	<1.0		ug/l			no
	BH2	Vinyl Chloride		Annual	<0.5		ug/l			no
	BH2	Bromomethane		Annual	<1.0		ug/l			no
	BH2	Trichloromonofluoromethane		Annual	<1.0		ug/l			no
	BH2	Ethyl Ether/Diethyl Ether		Annual	<1.0		ug/l			no
	BH2	11 Dichloroethene		Annual	<1.0		ug/l			no
	BH2	Iodomethane/Methyl Iodide		Annual	<1.0		ug/l			no
	BH2	Carbon Disulphide		Annual	<1.0		ug/l			no
	BH2	Allyl Chloride		Annual	<1.0		ug/l			no
	BH2	Chlormethyl Cyanide/Chloroacetonitrile		Annual	<1.0		ug/l			no
	BH2	Propanenitrile		Annual	<1.0		ug/l			no
	BH2	Trans-1,2 Dichloroethene		Annual	<1.0		ug/l			no
	BH2	MtBE		Annual	<1.0		ug/l			no
	BH2	1,1-dichloroethane		Annual	<1.0		ug/l			no
	BH2	2,2-dichloropropane		Annual	<1.0		ug/l			no
	BH2	cis-12 Dichloroethene		Annual	<1.0		ug/l			no

Groundwater/Soil monitoring template				Lic No:	W0022-01			Year	2014	
	BH2	2-Butanone		Annual	<1.0		ug/l			no
	BH2	Methyl Acrylate		Annual	<1.0		ug/l			no
	BH2	Bromochloromethane		Annual	<1.0		ug/l			no
	BH2	Methacrylonitrile		Annual	<1.0		ug/l			no
	BH2	1,1,1-trichloroethane		Annual	<1.0		ug/l			no
	BH2	1-Chlorobutane		Annual	<1.0		ug/l			no
	BH2	Carbon Tetrachloride		Annual	<1.0		ug/l			no
	BH2	11 Dichloropropene		Annual	<1.0		ug/l			no
	BH2	1,2 dicloroethane		Annual	<1.0		ug/l			no
	BH2	1,2-dichloropropane		Annual	<1.0		ug/l		10ug/l	no
	BH2	Dibromomethane		Annual	<1.0		ug/l			no
	BH2	Methyl Methacrylate		Annual	<1.0		ug/l			no
	BH2	13 Dichloropropene,cis		Annual	<1.0		ug/l			no
	BH2	MIBK/4 Methyl 2 Pentanone		Annual	<1.0		ug/l			no
	BH2	13 Dichloropropene,trans		Annual	<1.0		ug/l			no
	BH2	Ethyl Methacrylate		Annual	<1.0		ug/l			no
	BH2	112 Trichloroethane		Annual	<1.0		ug/l			no
	BH2	1,3-dichloropropane		Annual	<1.0		ug/l			no
	BH2	2-Hexanone		Annual	<1.0		ug/l			no
	BH2	1,2-dibromoethane		Annual	<1.0		ug/l			no
	BH2	Chlorobenzene		Annual	<1.0		ug/l		1.0ug/l	no
	BH2	1,1,1,2-tetrachloroethane		Annual	<1.0		ug/l			no
	BH2	Ethylbenzene		Annual	<1.0		ug/l		10ug/l	no
	BH2	Xylene P&M		Annual	<1.0		ug/l			no
	BH2	Styrene		Annual	<1.0		ug/l			no
	BH2	Isopropylbenzene		Annual	<1.0		ug/l			no
	BH2	Bromobenzene		Annual	<1.0		ug/l			no
	BH2	1,1,2,2-tetrachloroethane		Annual	<1.0		ug/l			no
	BH2	1,2,3-trichloropropane		Annual	<1.0		ug/l			no
	BH2	Trans 14 Dichloro 2 Butene, tran		Annual	<1.0		ug/l			no
	BH2	Propylbenzene		Annual	<1.0		ug/l			no

Groundwater/Soil monitoring template				Lic No:	W0022-01		Year	2014		
	BH2	2-chlorotoluene		Annual	<1.0		ug/l			no
	BH2	4-chlorotoluene		Annual	<1.0		ug/l			no
	BH2	1,3,5-trimethylbenzene		Annual	<1.0		ug/l			no
	BH2	Tert Butyl Benzene		Annual	<1.0		ug/l			no
	BH2	1,2,4-trimethylbenzene		Annual	<1.0		ug/l			no
	BH2	sec-butylbenzene		Annual	<1.0		ug/l			no
	BH2	P Isopropyltoluene		Annual	<1.0		ug/l			no
	BH2	N Butyl Benzene		Annual	<1.0		ug/l			no
	BH2	1,2-dibromo-3-chloropropane		Annual	<1.0		ug/l			no
	BH2	1,2,3-trichlorobenzene		Annual	<1.0		ug/l			no
	BH2	VOC		Annual	<2.0		ug/l			no
	BH2	SVOC		Annual	<5.0		ug/l			no
	BH2	OPP		Annual	<0.005		ug/l			no
	BH2	OCP		Annual	<10		ng/l			
	BH2	Total pesticides		Annual	<0.05		ug/l			SELECT

*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.

Groundwater monitoring template

More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)

Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).

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

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

Groundwater/Soil monitoring template	Lic No:	W0022-01	Year	2014

Table 3: Soil results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit
							SELECT
							SELECT

Where additional detail is required please enter it here in 200 words or less

Environmental Liabilities template	Lic No:	W0022-01	Year	2014

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

			Commentary
1	ELRA initial agreement status	Submitted and not agreed by EPA;	Closed Feb 2007
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	Authority Responsibility as
4	Financial Provision for ELRA status	SELECT	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	SELECT	
9	Closure plan review status	SELECT	
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13	Financial provision for Closure expiry date	Enter expiry date	

Environmental Management Programme/Continuous Improvement Programme template

Lic No: W0022-01 Year 2014

Highlighted cells contain dropdown menu click to view

			Additional Information
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	An EMS is updated and retained on site on an annual basis since 2008. It includes sections on Use of manual, Site location and description, Types of waste accepted and procedures,
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
Reduction of emissions to Air	Maintain low complaint numbers against the facility	100	Improvement of gas extraction system and operation	Site Staff & Management	Reduced emissions
Materials Handling/Storage/Bunding	Improve annual recycling rate by 5%	95	Improvement of Civic Amenity Site layout and improved maintenance of existing infrastructure	Site Staff & Management	Installation of infrastructure and improved housekeeping
Additional improvements	Improve Site security	90	Liasing with Security Company and An Gardaí Síochana to deter would-be intruders. Infrastructure positioned to deter would-be intruders	Site Staff & Management	Improved Environmental Management Practices & cleaner site
Additional improvements	To control environmental nuisances at the facilty	90	Reduction of waste intake, improved litter capture and improved site practices	Site Staff	Increased compliance with licence conditions
Additional improvements	Review the closure modifications of the Waste Licence following the closure of landfill in Feb 2007	50	Testing regime inspected to make workload more efficient for site staff	Site management	Increased compliance with licence conditions

Noise monitoring summary report	Lic No:	W0022-01	Year	2014

1	Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below	Yes
2	Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6? (Noise Guidance note NG4)	Yes
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 N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA_{eq}	LA_{90}	LA_{10}	LA_{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
10/10/2014	30min	N1		40.6	32	42.7	62.6	No	No	No noise from landfill site. Birdsongs, countryside noises and a lawnmover from a nearby house.	Yes
10/10/2014	30min	N3		38.8	32.5	40.9	60	No	No	No noise from landfill site. External noise from road, nature and adjacent quarry	Yes
10/10/2014	30min	N4		52.7	42.1	56.1	74.9	No	No	No noise from landfill site. Civic Amenity Site noises were attributed to cars stopping taking off from the kiosk and waste being dumped. External noise from road, nature and adjacent quarry.	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? SELECT

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

Site fully compliant with Waste Licance Noise Regulations

Resource Usage/Energy efficiency summary	Lic No:	W0022-01	Year	2014

			Additional information
1	When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below	Enter date of audit	
2	Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information	SEAI - Large Industry Energy Network (LIEN) — No	
3	Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information	SELECT	

Table R1 Energy usage on site

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	68.251	67.102	-2%	
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	68.251	67.102	-2%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	0.9	0.9	0%	
Light Fuel Oil (m3)	110	96	-13%	
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

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

** where site production information is available please enter percentage increase or decrease compared to previous year

Table R2 Water usage on site

					Water Emissions	Water Consumption	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m^3yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	224	212	-5%	N/A	212	N/A	0
Recycled water							
Total							

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

** where site production information is available please enter percentage increase or decrease compared to previous year

Table R3 Waste Stream Summary

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

Resource Usage/Energy efficiency summary Lic No: W0022-01 Year 2014

Table R4: Energy Audit finding recommendations

Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

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

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

Complaints and Incidents summary template

Lic No: W0022-01 Year 2014

Complaints

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

Table 1 Complaints summary

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

Total complaints open at start of reporting year	0
Total new complaints received during reporting year	0
Total complaints closed during reporting year	0
Balance of complaints end of reporting year	0

Incidents

Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below	No	Additional information

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

Table 2 Incidents summary

Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of reoccurence
	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 year	0
Total number of incidents previous year	0
% reduction/ increase	100

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD				QUANTITY		
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	C	OTH	Measured through analysis of flue gas emissions monitoring and GasSim model	0.0	794509.0	0.0	794509.0
02	Carbon monoxide (CO)	M	ISO 12039:2001	Measured through analysis of flue gas emissions monitoring	0.0	6.2	0.0	6.2
03	Carbon dioxide (CO2)	C	ISO 12039:2001	Measured through analysis of flue gas emissions monitoring and GasSim model	0.0	2485171.0	0.0	2485171.0
07	Non-methane volatile organic con	M	EN 13649:2001	Measured through analysis of flue gas emissions monitoring	0.0	19.77	0.0	19.77
08	Nitrogen oxides (NOx/NO2)	M	EN 14792:2005	Measured through analysis of flue gas emissions monitoring	0.0	632.5	0.0	632.5
11	**Sulphur oxides (SOx/SO2)**	M	EN 14791:2005	Measured through analysis of flue gas emissions monitoring	0.0	81.14	0.0	81.14

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

Additional Data Requested from Landfill operators

requested to provide summary data on landfill gas (Methane) flared or utilised on their

Landfill: East Cork Landfill Site

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: Designation or Description	Facility Total Capacity m3 per hour	
Total estimated methane generation (as per site model)	1176994.0	C	OTH	Gas Sim model	N/A	
Methane flared	382486.0	M	OTH	Measured through analysis of flare flue gas emissions monitoring	880.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	794509.0	C	OTH	Gas Sim model and measured through analysis of flare flue gas emissions monitoring	N/A	

WASTE SUMMARY	Lic No:	W0022-01	Year	2014
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES	PRTR facility logon		dropdown list click to see options	

WASTE SUMMARY Lic No: W0022-01 Year 2014

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	13 02 08	Yes	5.56	other engine, gear and lubricating oils	R9	M	Weighed	Offsite in Ireland	Enva Ltd,W184-01	Clonminam Industrial Estate,.'',Portlaoise,Co Laois,Ireland	Enva Ltd,W184-01	Clonminam Industrial Estate,".",Portlaoise,Co Laois,Ireland
Within the Country	15 01 01	No	63.24	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	greenstar Ltd,W136-02	Corbally North,Srasfields Court,Glanmire, Co Cork,Ireland		
Within the Country	15 01 02	No	17.36	plastic packaging	R5	M	Weighed	Offsite in Ireland	Green Dragon Recycling Ltd,CK/09/0629/01	Corbally North,Sarsfields Court,Glanmire, Co Cork,Ireland		
Within the Country	15 01 04	No	0.78	metallic packaging	R4	M	Weighed	Offsite in Ireland	Mr Binman,W0061-01	Luddenmore,Grange,Kilmallock,Co Limerick,Ireland		
Within the Country	15 01 07	No	26.59	glass packaging	R5	M	Weighed	Offsite in Ireland	Mr Binman,W0061-01	Luddenmore,Grange,Kilmallock,Co Limerick,Ireland		
Within the Country	16 06 01	Yes	3.51	lead batteries	R6	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland
Within the Country	16 06 04	No	0.51	alkaline batteries (except 16 06 03)	R13	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland		
Within the Country	17 01 07	No	566.48	mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R5	M	Weighed	Offsite in Ireland	Ballineen Skip Hire,WCP-CK-09-0608-04	Connagh,Ballineen ,Co Cork,.,Ireland		
Within the Country	19 07 03	No	7347.93	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Carrigtwohill Wastewater Treatment Plant,D0044-01	Wastewater Treatment Plant,Tullagreen, Carrigtwohill Wastewater Treatment Plant,Co Cork,Ireland		
Within the Country	20 01 01	No	62.7	paper and cardboard	R3	M	Weighed	Offsite in Ireland	greenstar Ltd,W136-02	Corbally North,Srasfields Court,Glanmire, Co Cork,Ireland		

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Within the Country	20 01 02	No	19.86	glass	R5	M	Weighed	Offsite in Ireland	MSM Recycling Ltd,W0079-01	41-42 Cookstown Industrial Estate,Tallaght,Dublin,D24,Ireland		
Within the Country	20 01 11	No	2.43	textiles	R5	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,WCP-DC-08-1225-01	Glen Abbey Business Park,Tallaght,Dublin,D24,Ireland		
Within the Country	20 01 23	Yes	0.41	discarded equipment containing chlorofluorocarbons	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland
Within the Country	20 01 28	No	16.64	paint, inks, adhesives and resins other than those mentioned in 20 01 27	R1	M	Weighed	Offsite in Ireland	Enva Ltd,W184-01	Clonminam Industrial Estate,".",Portlaoise,Co Laois,Ireland		
Within the Country	20 01 35	Yes	183.81	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland
Within the Country	20 01 36	No	0.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland		
Within the Country	20 01 36	No	0.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappincur Industrail Estate,Daingean Rd,Tullamore,Co Offaly,Ireland		
Within the Country	20 01 38	No	375.63	wood other than that mentioned in 20 01 37	R13	M	Weighed	Offsite in Ireland	CTO Environmental Solutions Ltd,CK/09/0018/02	Tait's Farm,Rostellan, Midleton,Co Cork,Ireland		
Within the Country	20 01 40	No	130.95	metals	R4	M	Weighed	Offsite in Ireland	Pouladuff Dismantlers Ltd,CK/0584/01	Pouladuff Rd,Togher,Cork, Cork,Ireland		
Within the Country	20 02 01	No	332.08	biodegradable waste	R3	M	Weighed	Offsite in Ireland	greenstar Ltd,W136-02	Corbally North,Srasfields Court,Glanmire, Co Cork,Ireland		
Within the Country	20 03 01	No	796.75	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Country Clean Recycling Ltd,W0257	Chuchfield Industrial Estate,John F Connolly Road,Cork,Co Cork,Ireland		
Within the Country	20 03 07	No	937.82	bulky waste	D5	M	Weighed	Offsite in Ireland	greenstar Ltd,W136-02	Corbally North,Srasfields Court,Glanmire, Co Cork,Ireland		

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SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

			Additional Information
1	Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is to be captured through PRTR reporting) If yes please enter details in table 1 below	SELECT	
2	Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information	SELECT	
3	Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information	SELECT	

Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR workbook)

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

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

4	Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite	SELECT	
5	Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site	SELECT	
6	Does your facility have relevant nuisance controls in place?	SELECT	
7	Do you have an odour management system in place for your facility? If no why?	SELECT	
8	Do you maintain a sludge register on site?	SELECT	

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
68,200	0		Site Closed Feb 2007	
21,400	0	0		
13,800	0			
7,800	0			

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area
										SELECT UNIT	SELECT UNIT	SELECT UNIT
Site Closed Feb 2007												

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Table 4 Environmental monitoring-landfill only

Landfill Manual-Monitoring Standards

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

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

Table 5 Capping-Landfill only

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					
0	0	65760m2	0	65760m2	1mm HDPE welded liner, geotextile drainage layer and protection barrier covered with 1m of suitable, screened soil.	

*please note this includes daily cover area

Table 6 Leachate-Landfill only

9	Is leachate from your site treated in a Waste Water Treatment Plant?	Yes
10	Is leachate released to surface water? If yes please complete leachate mass load information below	No

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments
7347.93	1093	2454.2	372	3651.7	No	Wastewater Treatment Plant with Mixing tank, Oxidation ditch & Settlement tanks	

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

Table 7 Landfill Gas-Landfill only

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
562479 kg CH4/annum	0	0	Yes	Gas captured figure is Annual Methane burn-off in kg/annum. Areas of elevated VOC's are identified by the surveys and are attended to by site staff.

Comments on liner type