

SELECT	cells that are highlighted blue cont
<u>guidance document link</u>	cells that contain underlined text c
Table heading *	table headings followed by a symb
Cells with red indicator in top right corner	cells that have a red indicator in th

Please note an interpretation of results is still required. This should be ei
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

iol have an associated footnote or instructions

ie 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
se 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	2015
Licence Register Number	W0068-03
Name of site	Youghal Landfill
Site Location	Foxhole, Youghal, co.Cork
NACE Code	3821
Class/Classes of Activity	5(c), 5(d), 50.1
National Grid Reference (6E, 6 N)	2100E 0800N
<p>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 <u>listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.</u></p>	<p>Youghal landfill accepted waste at the facility until February 2012. Since that date only cover material (soil and stones) and road building material (suitable C&D material) has been accepted to allow for a "pre-capping" profile to be constructed on Cell 9. This work continued in 2015 and a void of 180m3 is still available whenever the management of the facility decide to fill it. A capping design is currently ongoing. The environmental performance of the facility has continued to improve by comparison with previous years. No confirmed odour complaint was registered in 2015. The gas extraction system has continued to perform well with 1 the enclosed flare burning off the gas generated. The daily attendance and gas-well leachate removal has ensured increased effective length of the gas wells and, hence, the proper functioning of the system. The VOC surveys have shown a continued improvement in the profile of Cells 6 to 9. Minor exceedances have again been measured in the perimeter gas wells but are explained by the estuarine conditions that account for naturally occurring CO2. Both Leachate and groundwater results are similar to previous years. The noise survey was compliant for the year as would be expected with the removal of the large landfill compacting plant from the site. Overall the site has been compliant with its licence.</p>

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.

_____	15/03/2016
Signature	Date
	
experienced deputy)	

AIR-summary template

Lic No:

W0068-03

Year

2015

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 thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
Flare Stack	Methane (CH4)	Continuous	N/A	SELECT	799734	m3	yes	MAB	561814	Annual mass load refers to difference
Flare Stack	Carbon dioxide (CO2)	Continuous	N/A	SELECT	466848	m3	yes	ISO 12039:2001	873006	Annual mass load refers to difference
Flare Stack	Carbon monoxide (CO)	Continuous	<50mg/Nm3	No 30min mean can exceed the ELV	17.98	mg/Nm3	yes	ISO 12039:2001	7.54	
Flare Stack	Nitrogen oxides (NOx/NO2)	Annual	<150mg/Nm3	No 30min mean can exceed the ELV	106.95	mg/Nm3	yes	EN 14792:2005	353.34	
Flare Stack	Sulphur oxides (SOx/SO2)	Annual	N/A		99.65	mg/Nm3	yes	EN 14791:2005	187.55	

AIR-summary template	Lic No: W0068-03	Year: 2015
Continuous Monitoring		

4	Does your site carry out continuous air emissions monitoring? If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)	Yes	
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			54	0	One enclosed flare operating on site for 2015
	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

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

Lic No:

W0068-03

Year

2015

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 licensed 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

No

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
SW1	upstream		pH	Quarterly	No ELV or trigger levels	N/A	7	pH units	yes	Median Value for 2015
SW1	upstream		Temperature	Quarterly	No ELV or trigger levels	N/A	12	degrees C	yes	Median Value for 2015
SW1	upstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	182.3	µS/cm@25oC	yes	Median Value for 2015
SW1	upstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	8.6	mg/L	yes	Median Value for 2015
SW1	upstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	6722	mg/L	yes	Median Value for 2015. sw1 is influenced by saline water.
SW1	upstream		BOD	Quarterly	No ELV or trigger levels	N/A	2	mg/L	yes	Median Value for 2015
SW1	upstream		COD	Quarterly	No ELV or trigger levels	N/A	143	mg/L	yes	Median Value for 2015
SW1	upstream		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.1	mg/L	yes	Median Value for 2015
SW1	upstream		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	19.8	mg/L	yes	Median Value for 2015
SW1	upstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<1	µg/L	yes	Annual result
SW1	upstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	3.7	mg/L	yes	Annual result
SW1	upstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result
SW1	upstream		Iron	Annual	No ELV or trigger levels	N/A	25.2	µg/L	yes	Annual result
SW1	upstream		Lead and compounds (as Pb)	Annual	No ELV or trigger levels	N/A	<1	µg/L	yes	Annual result
SW1	upstream		Magnesium	Annual	No ELV or trigger levels	N/A	839	mg/L	yes	Annual result
SW1	upstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	17.7	µg/L	yes	Annual result
SW1	upstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.5	µg/L	yes	Annual result
SW1	upstream		Potassium	Annual	No ELV or trigger levels	N/A	244	mg/L	yes	Annual result. SALINE WATERS
SW1	upstream		Sulphate	Annual	No ELV or trigger levels	N/A	1930	mg/L	yes	Annual result. SALINE WATERS
SW1	upstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	0.79	mg/L	yes	Annual result
SW1	upstream		Zinc and compounds (as Zn)	Annual	No ELV or trigger levels	N/A	<25	µg/L	yes	Annual result
SW1	upstream		Total phosphorus	Annual	No ELV or trigger levels	N/A	0.05	mg/L	yes	Annual result
SW2	downstream		pH	Quarterly	No ELV or trigger levels	N/A	7.7	pH units	yes	Median Value for 2015
SW2	downstream		Temperature	Quarterly	No ELV or trigger levels	N/A	13.4	degrees C	yes	Median Value for 2015
SW2	downstream		Conductivity	Quarterly	No ELV or trigger levels	N/A	3461	µS/cm@25oC	yes	Median Value for 2015
SW2	downstream		Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	7	mg/L	yes	Median Value for 2015
SW2	downstream	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	3325	mg/L	yes	Median Value for 2015. SW2 is located along the mud bank and is tidal.
SW2	downstream		BOD	Quarterly	No ELV or trigger levels	N/A	1.9	mg/L	yes	Median Value for 2015
SW2	downstream		COD	Quarterly	No ELV or trigger levels	N/A	34.7	mg/L	yes	Median Value for 2015
SW2	downstream		Ammonia (as N)	Quarterly			2.9	mg/L	yes	Median Value for 2015
SW2	downstream		Suspended Solids	Quarterly			8.3	mg/L	yes	Median Value for 2015
SW2	downstream	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	<1	µg/L	yes	Annual result
SW2	downstream	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	2.3	mg/L	yes	Annual result
SW2	downstream	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result
SW2	downstream		Iron	Annual	No ELV or trigger levels	N/A	51.7	µg/L	yes	Annual result

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)				Lic No:	W0068-03	Year	2015		
SW2	downstream	Lead and compounds (as Pb)	Annual	No ELV or trigger levels	N/A	<1	µg/L	yes	Annual result
SW2	downstream	Magnesium	Annual	No ELV or trigger levels	N/A	182	mg/L	yes	Annual result
SW2	downstream	Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	434	µg/L	yes	Annual result
SW2	downstream	Mercury and compounds (as Hg)	Annual	No ELV or trigger levels	N/A	<0.5	µg/L	yes	Annual result
SW2	downstream	Potassium	Annual	No ELV or trigger levels	N/A	67.2	mg/L	yes	Annual result
SW2	downstream	Sulphate	Annual	No ELV or trigger levels	N/A	378	mg/L	yes	Annual result
SW2	downstream	Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	1.76	mg/L	yes	Annual result
SW2	downstream	Zinc and compounds (as Zn)	Annual	No ELV or trigger levels	N/A	<25	µg/L	yes	Annual result
SW2	downstream	Total phosphorus	Annual	No ELV or trigger levels	N/A	0.14	mg/L	yes	Annual result
SW3	downstream	PH	Quarterly	No ELV or trigger levels	N/A	7.9	pH units	yes	Median Value for 2015
SW3	downstream	Temperature	Quarterly	No ELV or trigger levels	N/A	12.5	degrees C	yes	Median Value for 2015
SW3	downstream	Conductivity	Quarterly	No ELV or trigger levels	N/A	10136	µS/cm@25oC	yes	Median Value for 2015
SW3	downstream	Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	7.6	mg/L	yes	Median Value for 2015
SW3	downstream	Chlorides (as Cl)	Quarterly	No ELV or trigger levels	N/A	8046	mg/L	yes	Median Value for 2015 located at the sluice gate and is tidal.
SW3	downstream	BOD	Quarterly	No ELV or trigger levels	N/A	3.8	mg/L	yes	Median Value for 2015
SW3	downstream	COD	Quarterly	No ELV or trigger levels	N/A	70.3	mg/L	yes	Median Value for 2015
SW3	downstream	Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	0.4	mg/L	yes	Median Value for 2015
SW3	downstream	Suspended Solids	Quarterly	No ELV or trigger levels	N/A	24.3	mg/L	yes	Median Value for 2015
SW3	downstream	Chromium and compounds (as Cr)	Annual	No ELV or trigger levels	N/A	<1	µg/L	yes	Annual result
SW3	downstream	Copper and compounds (as Cu)	Annual	No ELV or trigger levels	N/A	3.1	mg/L	yes	Annual result
SW3	downstream	Cadmium and compounds (as Cd)	Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result
SW3	downstream	Iron	Annual	No ELV or trigger levels	N/A	52.2	µg/L	yes	Annual result
SW3	downstream	Lead and compounds (as Pb)	Annual	No ELV or trigger levels	N/A	<1	µg/L	yes	Annual result
SW3	downstream	Magnesium	Annual	No ELV or trigger levels	N/A	252	mg/L	yes	Annual result for 2015. ECS limit is 50 mg/L/Elevated levels are consistent with previous years and are due to the geology of the site.
SW3	downstream	Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	58.9	µg/L	yes	Annual result
SW3	downstream	Mercury and compounds (as Hg)	Annual	No ELV or trigger levels	N/A	<0.5	µg/L	yes	Annual result
SW3	downstream	Potassium	Annual	No ELV or trigger levels	N/A	94.9	mg/L	yes	Annual result. SALINE WATERS
SW3	downstream	Sulphate	Annual	No ELV or trigger levels	N/A	559	mg/L	yes	Annual result. SALINE WATERS
SW3	downstream	Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	1.74	mg/L	yes	Annual result
SW3	downstream	Zinc and compounds (as Zn)	annual	No ELV or trigger levels	N/A	<25	µg/L	yes	Annual result
SW3	downstream	Total phosphorus	Annual	No ELV or trigger levels	N/A	0.32	mg/L	yes	Annual result
SW6	downstream	PH	Quarterly	No ELV or trigger levels	N/A	7.7	pH units	yes	Median Value for 2015
SW6	downstream	Temperature	Quarterly	No ELV or trigger levels	N/A	13.8	degrees C	yes	Median Value for 2015
SW6	downstream	Conductivity	Quarterly	No ELV or trigger levels	N/A	14.6	mS/cm@25oC	yes	Median Value for 2015
SW6	downstream	Dissolved Oxygen	Quarterly	No ELV or trigger levels	N/A	6.3	mg/L	yes	Median Value for 2015
SW6	downstream	Chlorides (as Cl)	Quarterly	No ELV or trigger levels	N/A	4946	mg/L	yes	Median Value for 2015 SW6 is located along the mud bank and is tidal.
SW6	downstream	BOD	Quarterly	No ELV or trigger levels	N/A	4	mg/L	yes	Median Value for 2015
SW6	downstream	COD	Quarterly	No ELV or trigger levels	N/A	38.3	mg/L	yes	Median Value for 2015
SW6	downstream	Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	2	mg/L	yes	Median Value for 2015
SW6	downstream	Suspended Solids	Quarterly	No ELV or trigger levels	N/A	13.7	mg/L	yes	Median Value for 2015
SW6	downstream	Chromium and compounds (as Cr)	Annual	No ELV or trigger levels	N/A	<1	µg/L	yes	Annual result
SW6	downstream	Copper and compounds (as Cu)	Annual	No ELV or trigger levels	N/A	1.3	mg/L	yes	Annual result
SW6	downstream	Cadmium and compounds (as Cd)	Annual	No ELV or trigger levels	N/A		µg/L	yes	Annual result
SW6	downstream	Iron	Annual	No ELV or trigger levels	N/A	74.9	µg/L	yes	Annual result

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)				Lic No:	W0068-03	Year	2015			
SW6	downstream	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	<1	µg/L	yes	Annual result
SW6	downstream		Magnesium	Annual	No ELV or trigger levels	N/A	699	mg/L	yes	Annual result for 2015 EQS limit is 50mg/L. Elevated results is consistent and due to the geology of the area.
SW6	downstream		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	471	µg/L	yes	Annual result
SW6	downstream	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	<0.5	µg/L	yes	Annual result
SW6	downstream		Potassium	Annual	No ELV or trigger levels	N/A	192	mg/L	yes	Annual result. This is saline water.
SW6	downstream		Sulphate	Annual	No ELV or trigger levels	N/A	1657	mg/L	yes	Annual result. This is saline water.
SW6	downstream		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	0.47	mg/L	yes	Annual result
SW6	downstream	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	<25	µg/L	yes	Annual result
SW6	downstream	Total phosphorus		Annual	No ELV or trigger levels	N/A	0.38	mg/L	yes	Annual result
GA127	onsite		pH	Quarterly	No ELV or trigger levels	N/A	7.4	pH units	yes	Median Value for 2015
GA127	onsite		Temperature	Quarterly	No ELV or trigger levels	N/A	8.9	degrees C	yes	Median Value for 2015
GA127	onsite		Conductivity	Quarterly	No ELV or trigger levels	N/A	927	µS/cm@25oC	yes	Median Value for 2015
GA127	onsite	Chlorides (as Cl)		Quarterly	No ELV or trigger levels	N/A	229	mg/L	yes	Median Value for 2015
GA127	onsite		BOD	Quarterly	No ELV or trigger levels	N/A	<1	mg/L	yes	Median Value for 2015
GA127	onsite		COD	Quarterly	No ELV or trigger levels	N/A	95	mg/L	yes	Median Value for 2015
GA127	onsite		Ammonia (as N)	Quarterly	No ELV or trigger levels	N/A	66	mg/L	yes	Median Value for 2015
GA127	onsite		Suspended Solids	Quarterly	No ELV or trigger levels	N/A	60.5	mg/L	yes	Median Value for 2015
GA127	onsite	Chromium and compounds (as Cr)		Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual result
GA127	onsite	Copper and compounds (as Cu)		Annual	No ELV or trigger levels	N/A	dry	µg/L	yes	Annual result
GA127	onsite	Cadmium and compounds (as Cd)		Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual result
GA127	onsite		Iron	Annual	No ELV or trigger levels	N/A	dry	µg/L	yes	Annual result
GA127	onsite	Lead and compounds (as Pb)		Annual	No ELV or trigger levels	N/A	dry	µg/L	yes	Annual result
GA127	onsite		Magnesium	Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual result
GA127	onsite		Manganese (as Mn)	Annual	No ELV or trigger levels	N/A	dry	µg/L	yes	Annual result
GA127	onsite	Mercury and compounds (as Hg)		Annual	No ELV or trigger levels	N/A	dry	µg/L	yes	Annual result
GA127	onsite		Potassium	Annual	No ELV or trigger levels	N/A	dry	µg/L	yes	Annual result
GA127	onsite		Sulphate	Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual result
GA127	onsite		Total Oxidised Nitrogen (TON)	Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual result
GA127	onsite	Zinc and compounds (as Zn)		Annual	No ELV or trigger levels	N/A	dry	µg/L	yes	Annual result
GA127	onsite	Total phosphorus		Annual	No ELV or trigger levels	N/A	dry	mg/L	yes	Annual result

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0068-03 Year 2015

*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

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 Assessment of results checklist](#)

SELECT	Additional information
SELECT	

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

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

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

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

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

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

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below

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

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

Table W4: Summary of average emissions -continuous monitoring

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

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund testing

dropdown menu click to see options

Additional information

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

Yes	Only one bund test is required at the site for the leachate lagoon. The lagoon is used for storage of leachate prior to transport to local
3 years	
No	
1	
1	
1	
No	
1	
0	
N/A	
No	
N/A	
No	

- 1 Please provide integrity testing frequency period
 - 2 Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
 - 3 How many bunds are on site?
 - 4 How many of these bunds have been tested within the required test schedule?
 - 5 How many mobile bunds are on site?
 - 6 Are the mobile bunds included in the bund test schedule?
 - 7 How many of these mobile bunds have been tested within the required test schedule?
 - 8 How many sumps on site are included in the integrity test schedule?
 - 9 How many of these sumps are integrity tested within the test schedule?
- Please list any sump integrity failures in table B1**
- 11 Do all sumps and chambers have high level liquid alarms?
 - 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
 - 13 Is the Fire Water Retention Pond included in your integrity test programme?

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

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest (if in current reporting year)
Leachate Lagoon	reinforced concrete	Liner covered concrete	Leachate	2000 m3	1500 m3	Structural assessment		Oct-08	Yes	Pass		SELECT	Jun-16	
	SELECT					SELECT			SELECT	SELECT		SELECT		

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

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

SELECT	Commentary
SELECT	
SELECT	

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

Pipeline/underground structure testing

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

SELECT	
SELECT	

- 1 Please provide integrity testing frequency period
- *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:	W0068-03	Year	2015
--------------------------------------	---------	----------	------	------

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

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SW EQS	Upward trend in pollutant concentration over last 5 years of monitoring data
Quarterly	MW1	pH	meter	Quarterly	8	7.35	UNITS	9.5	9.5	no
Quarterly	MW1	Temp	meter	Quarterly						no
Quarterly	MW1	Elec. Conductivity	meter	Quarterly	26300	155.82	uS/cm		1000	no
Quarterly	MW1	Chlorides		Quarterly	10411	495	mg/l		250	no
Quarterly	MW1	Ammoniacal Nitrogen		Quarterly	9.88	3.39	mg/l		trigger value 20 mg/l	no
Quarterly	MW1	Iron		Quarterly	18	7.28			1.0mg/l	no
Quarterly	MW1	TON		Quarterly	3.02	5.26	mg/l		no abnormal change	no
24/8/2015	MW1	TOC		Annual	18.2	3.06	mg/l		trigger value of 12 mg/l	no
24/8/2015	MW1	Cadmium		Annual	<1	<1	ug/l		0.005mg/l	no
24/8/2015	MW1	Chromium (total)		Annual	<1	<1	ug/l		0.03mg/l	no
24/8/2015	MW1	Copper		Annual	<1	<1	ug/l		0.03mg/l	no
24/8/2015	MW1	Cyanide (Total)		Annual	<1	<1	ug/l		0.01mg/l	no
24/8/2015	MW1	Lead		Annual	683	683	ug/l		0.01mg/l	no
24/8/2015	MW1	Manganese		Annual	6.06	6.06	mg/l		50 mg/l	no
24/8/2015	MW1	Manganese		Annual	<0.5	<0.5	ug/l		0.03mg/l	no
24/8/2015	MW1	Mercury		Annual	<0.5	<0.5	ug/l		0.001mg/l	no
24/8/2015	MW1	Nickle		Annual	2	2	ug/l		0.02 mg/l	no
24/8/2015	MW1	Potassium		Annual	176	176	mg/l		5 mg/l	no
24/8/2015	MW1	Sulphate		Annual	1014	1014	mg/l		200 mg/l	no
24/8/2015	MW1	Total Alkalinity		Annual	4852	4852	mg/l			
24/8/2015	MW1	Total Phosphorus		Annual	0.33	0.33	mg/l			no
24/8/2015	MW1	Phenols		Annual	<0.01	<0.01	ug/l		0.5ug/l	no
24/8/2015	MW1	Naphthalene		Annual	<0.01	<0.01	ug/l		1.0 ug/l	no
24/8/2015	MW1	Acenaphthylene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Anthracene		Annual	<0.01	<0.01	ug/l		1000ug/l	no
24/8/2015	MW1	Chrysene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Fluoranthene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Fluorene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Pyrene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Phenanthrene		Annual	<1	<1	ug/l			no
24/8/2015	MW1	Bromodichloromet hane		Annual	<1	<1	ug/l			no
24/8/2015	MW1	Bromoform		Annual	<1	<1	ug/l			no
24/8/2015	MW1	Chloroform		Annual	<1	<1	ug/l		13 ug/l	no
24/8/2015	MW1	Dibromochloromet hane		Annual	<1	<1	ug/l			
24/8/2015	MW1	Dibromochloromet hane		Annual	<1	<1	ug/l			no
24/8/2015	MW1	Vinyl Chloride		Annual	<1	<1	ug/l	0.375 ug/l		no
24/8/2015	MW1	Chloromethane		Annual	<1	<1	ug/l			no
24/8/2015	MW1	Trichloroethene		Annual	<1	<1	ug/l			no
24/8/2015	MW1	Bromomethane		Annual	<1	<1	ug/l			no
24/8/2015	MW1	Trichloromonofluo romethane		Annual	<1	<1	ug/l			no
24/8/2015	MW1	1,1 Dichloroethene		Annual	<1	<1	ug/l			no
24/8/2015	MW1	Chloromethane		Annual	<1	<1	ug/l			no
24/8/2015	MW1	1,1-dichloroethane		Annual	<1	<1	ug/l			no
24/8/2015	MW1	1,1 Dichloropropene		Annual	<1	<1	ug/l			no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2015		
24/8/2015	MW1	1,2-dichloroethane	Annual	<1	<1	ug/l		no
24/8/2015	MW1	1,2-dichloropropane	Annual	<1	<1	ug/l		no
24/8/2015	MW1	1,1,1-trichloroethane	Annual	<1	<1	ug/l		no
24/8/2015	MW1	112 Trichloroethane	Annual	<1	<1	ug/l		
24/8/2015	MW1	1,3-dichloropropane	Annual			ug/l		no
24/8/2015	MW1	2-Hexanone	Annual	<1	<1	ug/l		no
24/8/2015	MW1	1,2-dibromoethane	Annual	<1	<1	ug/l		no
24/8/2015	MW1	Chlorobenzene	Annual	<1	<1	ug/l		no
24/8/2015	MW1	1,1,1,2-tetrachloroethane	Annual	<1	<1	ug/l		no
24/8/2015	MW1	Ethylbenzene	Annual			ug/l	11 ug/l	no
24/8/2015	MW1	Xylene P&M	Annual	<1	<1	ug/l		no
24/8/2015	MW1	Styrene	Annual	<1	<1	ug/l		no
24/8/2015	MW1	Isopropylbenzene	Annual	<1	<1	ug/l		no
24/8/2015	MW1	1,1,2,2-tetrachloroethane	Annual	<1	<1	ug/l		no
24/8/2015	MW1	1,2,3-trichloropropane	Annual			ug/l		no
24/8/2015	MW1	Propylbenzene	Annual	<1	<1	ug/l		no
24/8/2015	MW1	2-chlorotoluene	Annual	<1	<1	ug/l		no
24/8/2015	MW1	4-chlorotoluene	Annual	<1	<1	ug/l		no
24/8/2015	MW1	1,3,5-trimethylbenzene	Annual	<1	<1	ug/l		no
24/8/2015	MW1	Tert Butyl Benzene	Annual	<1	<1	ug/l		no
24/8/2015	MW1	1,2,4-trimethylbenzene	Annual	<1	<1	ug/l		no
24/8/2015	MW1	sec-butylbenzene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW1	Pentachlorophenol	Annual	<0.01	<0.01	ug/l	2.0 ug/l	no
24/8/2015	MW1	Tetrachloroethene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW1	Hexachlorobenzene	Annual	<0.01	<0.01	ug/l	0.03 ug/l	no
24/8/2015	MW1	Hexachlorobutadiene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW1	2,4,6-Trichlorophenol	Annual	<0.01	<0.01	ug/l	200 ug/l	no
24/8/2015	MW1	2,4-Dichlorophenol	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW1	2,4-Dimethylphenol	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW1	2-Chlorophenol	Annual	<0.01	<0.01	ug/l	200 ug/l	no
24/8/2015	MW1	1,2,4-trichlorobenzene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW1	1,2-dichlorobenzene	Annual	<0.01	<0.01	ug/l		

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2015				
24/8/2015	MW1	1,3-dichlorobenzene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	1,4-dichlorobenzene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	2,4,5-Trichlorophenol		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	2,4-Dinitrotoluene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	2,6-Dinitrotoluene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	2-Chloronaphthalene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	2-Methylnaphthalene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	2-Methylphenol		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	2-Nitrophenol		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	4-Bromophenyl Phenyl Ether		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	4-Chloro-3-methylphenol		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	4-Chlorophenyl phenyl ether		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	4-Nitrophenol		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Acenaphthene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Benzo(a)anthracene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Benzo(a)pyrene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Benzo(b)fluoranthene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Benzo(g,h,i)perylene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Benzyl Butyl Phthalate		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Bis(2-chloroethoxy)methane		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Bis(2-chloroethyl)ether		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Bis(2-chloroisopropyl)ether		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Bis(2-ethylhexyl)phthalate		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Dibenz(a,h)anthracene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Dibenzofuran		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Diethylphthalate		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	di-n-Butylphthalate		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Di-n-octylphthalate		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Diphenylamine		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Hexachloroethane		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Indeno(1,2,3-c,d)pyrene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Isophorone		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW1	Nitrobenzene		Annual	<0.01	<0.01	ug/l		10 ug/l	no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2015	
24/8/2015	MW1	n-Nitrosodi-n-propylamine	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Acetone	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Dichloromethane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Tetrahydrofuran	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Toluene	Annual	<0.01	<0.01	ug/l	10 ug/l
24/8/2015	MW1	Xylene -o	Annual	<0.01	<0.01	ug/l	10 ug/l
24/8/2015	MW1	Dichlorodifluoromethane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Ethyl Chloride/Chloroethane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Ethyl Ether/Diethyl Ether	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Iodomethane/Methyl Iodide	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Carbon Disulphide	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Allyl Chloride	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Chloromethyl Cyanide/Chloroacetonitrile	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Propanenitrile	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Trans-1,2 Dichloroethene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	MtBE	Annual	<0.01	<0.01	ug/l	30 ug/l
24/8/2015	MW1	2,2-dichloropropane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	cis-1,2 Dichloroethene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	2-Butanone	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Methyl Acrylate	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Bromochloromethane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Methacrylonitrile	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	1-Chlorobutane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Carbon Tetrachloride	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Dibromomethane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Methyl Methacrylate	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	1,3-Dichloropropene,cis	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	MIBK/4 Methyl 2 Pentanone	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	1,3-Dichloropropene,trans	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Ethyl Methacrylate	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Bromobenzene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	Trans 1,4 Dichloro 2 Butene, trans	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	P Isopropyltoluene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW1	N Butyl Benzene	Annual	<0.01	<0.01	ug/l	no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2015		
24/8/2015	MW1	1,2-dibromo-3-chloropropane	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW1	1,2,3-trichlorobenzene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW1	Mecoprop	Annual	<0.01	<0.01	ug/l	0.075 ug/l	
24/8/2015	MW1	Bentazone	Annual	<0.01	<0.01	ug/l	0.075 ug/l	no
24/8/2015	MW1	Simazine	Annual	<0.01	<0.01	ug/l	0.075 ug/l	no
Quarterly	MW4	pH	Quarterly	7.8	7.65	UNITS	9.5	no
Quarterly	MW4	Temp	Quarterly					no
Quarterly	MW4	Elec.Conductivity	Quarterly	616	6592	uS/cm	1000	no
Quarterly	MW4	Chlorides	Quarterly	1835	9351	mg/l	250	no
Quarterly	MW4	Ammoniacal Nitrogen	Quarterly	12.3	6.74	mg/l	trigger value of 80 mg/l	no
Quarterly	MW4	Iron	Quarterly	29	4.64		1.0mg/l	no
Quarterly	MW4	TON	Quarterly	5.52	1.76	mg/l	no abnormal change	no
24/8/2015	MW4	TOC	Annual	3.3	11.79	mg/l	trigger value of 30 mg/l	no
24/8/2015	MW4	Cadmium	Annual	<1	<1	ug/l	0.005mg/l	no
24/8/2015	MW4	Chromium (total)	Annual	<1	<1	ug/l	0.03mg/l	no
24/8/2015	MW4	Copper	Annual	<1	<1	ug/l	0.03mg/l	no
24/8/2015	MW4	Cyanide (Total)	Annual	<0.01	<0.01	ug/l	0.01mg/l	no
24/8/2015	MW4	Lead	Annual	<1	<1	ug/l	0.01mg/l	no
24/8/2015	MW4	Magnesium	Annual	14.3	14.3	mg/l	51 mg/l	no
24/8/2015	MW4	Manganese	Annual	0.063	0.063	ug/l	0.03mg/l	no
24/8/2015	MW4	Mercury	Annual	<0.5	<0.5	ug/l	0.001mg/l	no
24/8/2015	MW4	Nickle	Annual	<1	<1	ug/l	0.02 mg/l	no
24/8/2015	MW4	Potassium	Annual	2.11	2.11	mg/l	5 mg/l	no
24/8/2015	MW4	Sulphate	Annual	21	21	mg/l	200 mg/l	no
24/8/2015	MW4	Total Alkalinity	Annual	273	273	mg/l		
24/8/2015	MW4	Total Phosphorus	Annual			mg/l		no
24/8/2015	MW4	Phenols	Annual	<0.1	<0.1	ug/l	0.5ug/l	no
24/8/2015	MW4	Naphthalene	Annual	<0.01	<0.01	ug/l	1.0 ug/l	no
24/8/2015	MW4	Acenaphthylene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Anthracene	Annual	<0.01	<0.01	ug/l	1000ug/l	no
24/8/2015	MW4	Chrysene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Fluoranthene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Fluorene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Pyrene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Phenanthrene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Bromochloroethane	Annual	<1	<1	ug/l		no
24/8/2015	MW4	Bromoform	Annual	<1	<1	ug/l		no
24/8/2015	MW4	Chloroform	Annual	<1	<1	ug/l	12 ug/l	no
24/8/2015	MW4	Dibromochloroethane	Annual	<1	<1	ug/l		no
24/8/2015	MW4	Dibromochloroethane	Annual	<1	<1	ug/l		no
24/8/2015	MW4	Vinyl Chloride	Annual	<1	<1	ug/l	0.375 ug/l	no
24/8/2015	MW4	Chloromethane	Annual	<1	<1	ug/l		no
24/8/2015	MW4	Trichloroethene	Annual	<1	<1	ug/l		no
24/8/2015	MW4	Bromomethane	Annual	<1	<1	ug/l		no
24/8/2015	MW4	Trichloromethane	Annual	<1	<1	ug/l		no
24/8/2015	MW4	1,1-Dichloroethene	Annual	<1	<1	ug/l		no
24/8/2015	MW4	Chloromethane	Annual	<1	<1	ug/l		no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2015			
24/8/2015	MW4	1,1-dichloroethane		Annual	<1	<1	ug/l		no
24/8/2015	MW4	11 Dichloropropene		Annual	<1	<1	ug/l		no
24/8/2015	MW4	1,2 dichloroethane		Annual	<1	<1	ug/l		no
24/8/2015	MW4	1,2- dichloropropane		Annual	<1	<1	ug/l		no
24/8/2015	MW4	1,1,1- trichloroethane		Annual	<1	<1	ug/l		no
24/8/2015	MW4	112 Trichloroethane		Annual	<1	<1	ug/l		no
24/8/2015	MW4	1,3- dichloropropane		Annual	<1	<1	ug/l		no
24/8/2015	MW4	2-Hexanone		Annual			ug/l		no
24/8/2015	MW4	1,2-dibromoethane		Annual	<1	<1	ug/l		no
24/8/2015	MW4	Chlorobenzene		Annual	<1	<1	ug/l		no
24/8/2015	MW4	1,1,1,2- tetrachloroethane		Annual	<1	<1	ug/l		no
24/8/2015	MW4	Ethylbenzene		Annual	<1	<1	ug/l	10 ug/l	no
24/8/2015	MW4	Xylene P&M		Annual			ug/l		no
24/8/2015	MW4	Styrene		Annual	<1	<1	ug/l		no
24/8/2015	MW4	Isopropylbenzene		Annual	<1	<1	ug/l		no
24/8/2015	MW4	1,1,2,2- tetrachloroethane		Annual	<1	<1	ug/l		no
24/8/2015	MW4	1,2,3- trichloropropane		Annual	<1	<1	ug/l		no
24/8/2015	MW4	Propylbenzene		Annual			ug/l		no
24/8/2015	MW4	2-chlorotoluene		Annual	<1	<1	ug/l		no
24/8/2015	MW4	4-chlorotoluene		Annual	<1	<1	ug/l		no
24/8/2015	MW4	1,3,5- trimethylbenzene		Annual	<1	<1	ug/l		no
24/8/2015	MW4	Tert Butyl Benzene		Annual	<1	<1	ug/l		no
24/8/2015	MW4	1,2,4- trimethylbenzene		Annual	<1	<1	ug/l		no
24/8/2015	MW4	sec-butylbenzene		Annual	<1	<1	ug/l		no
24/8/2015	MW4	Pentachlorophenol		Annual	<0.01	<0.01	ug/l	2.0 ug/l	no
24/8/2015	MW4	Tetrachloroethene		Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Hexachlorobenzene		Annual	<0.01	<0.01	ug/l	0.03 ug/l	no
24/8/2015	MW4	Hexachlorobutadiene		Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	2,4,6- Trichlorophenol		Annual	<0.01	<0.01	ug/l	200 ug/l	no
24/8/2015	MW4	2,4- Dichlorophenol		Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	2,4- Dimethylphenol		Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	2-Chlorophenol		Annual	<0.01	<0.01	ug/l	200 ug/l	no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2015	
24/8/2015	MW4	1,2,4-trichlorobenzene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	1,2-dichlorobenzene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	1,3-dichlorobenzene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	1,4-dichlorobenzene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	2,4,5-Trichlorophenol	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	2,4-Dinitrotoluene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	2,6-Dinitrotoluene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	2-Chloronaphthalene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	2-Methylnaphthalene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	2-Methylphenol	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	2-Nitrophenol	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	4-Bromophenyl Phenyl Ether	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	4-Chloro-3-methylphenol	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	4-Chlorophenyl phenyl ether	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	4-Nitrophenol	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Acenaphthene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Benzo(a)anthracene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Benzo(a)pyrene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Benzo(b)fluoranthene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Benzo(g,h,i)perylene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Benzyl Butyl Phthalate	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Bis(2-chloroethoxy)methane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Bis(2-chloroethyl)ether	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Bis(2-chloroisopropyl)ether	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Bis(2-ethylhexyl)phthalate	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Dibenz(a,h)anthracene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Dibenzofuran	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Diethylphthalate	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	di-n-Butylphthalate	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Di-n-octylphthalate	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW4	Diphenylamine	Annual	<0.01	<0.01	ug/l	no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2015		
24/8/2015	MW4	Hexachloroethane	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Indeno(1,2,3-c,d)pyrene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Isophorone	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Nitrobenzene	Annual	<0.01	<0.01	ug/l	10 ug/l	no
24/8/2015	MW4	n-Nitrosodi-n-propylamine	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Acetone	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Dichloromethane	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Tetrahydrofuran	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Toluene	Annual	<0.01	<0.01	ug/l	10 ug/l	no
24/8/2015	MW4	Xylene -o	Annual	<0.01	<0.01	ug/l	11 ug/l	no
24/8/2015	MW4	Dichlorodifluoromethane	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Ethyl Chloride/Chloroethane	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Ethyl Ether/Diethyl Ether	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Iodomethane/Methyl iodide	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Carbon Disulphide	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Allyl Chloride	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Chlormethyl Cyanide/Chloroacetonitrile	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Propanenitrile	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Trans-1,2 Dichloroethene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	MtBE	Annual	<0.01	<0.01	ug/l	30 ug/l	no
24/8/2015	MW4	2,2-dichloropropane	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	cis-1,2 Dichloroethene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	2-Butanone	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Methyl Acrylate	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Bromochloromethane	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Methacrylonitrile	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	1-Chlorobutane	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Carbon Tetrachloride	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Dibromomethane	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Methyl Methacrylate	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	1,3-Dichloropropene,cis	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	MIBK/4 Methyl 2 Pentanone	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	1,3-Dichloropropene,trans	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Ethyl Methacrylate	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW4	Bromobenzene	Annual	<0.01	<0.01	ug/l		no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2015					
24/8/2015	MW4	Trans 1,4-Dichloro-2-Butene, trans		Annual	<0.01	<0.01	ug/l				no
24/8/2015	MW4	p-Isopropyltoluene		Annual	<0.01	<0.01	ug/l				no
24/8/2015	MW4	N-Butyl Benzene		Annual	<0.01	<0.01	ug/l				no
24/8/2015	MW4	1,2-dibromo-3-chloropropane		Annual	<0.01	<0.01	ug/l				no
24/8/2015	MW4	1,2,3-trichlorobenzene		Annual	<0.01	<0.01	ug/l				no
24/8/2015	MW4	Mecoprop		Annual	<0.01	<0.01	ug/l	0.075 ug/l			
24/8/2015	MW4	Bentazone		Annual	<0.01	<0.01	ug/l	0.075 ug/l			no
24/8/2015	MW4	Simazine		Annual	<0.01	<0.01	ug/l	0.075 ug/l			no

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
Quarterly	MW7	pH		Quarterly	7.2	6.93	UNITS		9.5	no
Quarterly	MW7	Temp		Quarterly						no
Quarterly	MW7	Elec. Conductivity		Quarterly	3.87	2.82	uS/cm		1000	no
Quarterly	MW7	Chlorides		Quarterly	431	242	mg/l		250	no
Quarterly	MW7	Ammoniacal Nitrogen		Quarterly	216	176	mg/l		Trigger value of 7 g/l	no
Quarterly	MW7	Iron		Quarterly	89	47.54			1.0mg/l	no
Quarterly	MW7	TON		Quarterly	<0.2	<0.1	mg/l		no abnormal change	no
24/8/2015	MW7	TOC		Annual	88.9	49.53	mg/l		trigger value of 7 mg/l	no
24/8/2015	MW7	Cadmium		Annual	<1	<1	ug/l		0.005mg/l	no
24/8/2015	MW7	Chromium (total)		Annual	3	3	ug/l		0.03mg/l	no
24/8/2015	MW7	Copper		Annual	1.9	1.9	ug/l		0.03mg/l	no
24/8/2015	MW7	Cyanide (Total)		Annual	1.9	1.9	ug/l		0.01mg/l	no
24/8/2015	MW7	Lead		Annual	3.28	3.28	ug/l		0.01mg/l	no
24/8/2015	MW7	Manganese		Annual	56.7	56.7	mg/l		51 mg/l	no
24/8/2015	MW7	Manganese		Annual	3.28	3.28	ug/l		0.03mg/l	no
24/8/2015	MW7	Mercury		Annual	<0.5	<0.5	ug/l		0.001mg/l	no
24/8/2015	MW7	Nickle		Annual	11	11	ug/l		0.02 mg/l	no
24/8/2015	MW7	Potassium		Annual	114	114	mg/l		5 mg/l	no
24/8/2015	MW7	Sulphate		Annual	<0.5	<0.5	mg/l		200 mg/l	no
24/8/2015	MW7	Total Alkalinity		Annual	1582	1582	mg/l			
24/8/2015	MW7	Total Phosphorus		Annual	nr	nr	mg/l			no
24/8/2015	MW7	Phenols		Annual	<0.1	<0.1	ug/l		0.5ug/l	no
24/8/2015	MW7	Naphthalene		Annual	<0.01	<0.01	ug/l		1.0 ug/l	no
24/8/2015	MW7	Acenaphthylene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Anthracene		Annual	<0.01	<0.01	ug/l		1000ug/l	no
24/8/2015	MW7	Chrysene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Fluoranthene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Fluorene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Pyrene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Phenanthrene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Bromodichloromet hane		Annual	<1	<1	ug/l			no
24/8/2015	MW7	Bromoform		Annual	<1	<1	ug/l			no
24/8/2015	MW7	Chloroform		Annual	<1	<1	ug/l		12 ug/l	no
24/8/2015	MW7	Dibromochloromet hane		Annual	<1	<1	ug/l			
24/8/2015	MW7	Dibromochloromet hane		Annual	<1	<1	ug/l			no
24/8/2015	MW7	Vinyl Chloride		Annual	<1	<1	ug/l	0.375 ug/l		no
24/8/2015	MW7	Chloromethane		Annual	<1	<1	ug/l			no
24/8/2015	MW7	Trichloroethene		Annual	<1	<1	ug/l			no
24/8/2015	MW7	Bromomethane		Annual	<1	<1	ug/l			no
24/8/2015	MW7	Trichloromonofluo romethane		Annual	<1	<1	ug/l			no
24/8/2015	MW7	1,1 Dichloroethene		Annual	<1	<1	ug/l			no
24/8/2015	MW7	Chloromethane		Annual	<1	<1	ug/l			no
24/8/2015	MW7	1,1-dichloroethane		Annual	<1	<1	ug/l			no
24/8/2015	MW7	1,1 Dichloropropene		Annual	<1	<1	ug/l			no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2015		
24/8/2015	MW7	1,2 dichloroethane	Annual	<1	<1	ug/l		no
24/8/2015	MW7	1,2-dichloropropane	Annual	<1	<1	ug/l		no
24/8/2015	MW7	1,1,1-trichloroethane	Annual	<1	<1	ug/l		no
24/8/2015	MW7	112 Trichloroethane	Annual	<1	<1	ug/l		
24/8/2015	MW7	1,3-dichloropropane	Annual	<1	<1	ug/l		no
24/8/2015	MW7	2-Hexanone	Annual			ug/l		no
24/8/2015	MW7	1,2-dibromoethane	Annual	<1	<1	ug/l		no
24/8/2015	MW7	Chlorobenzene	Annual	<1	<1	ug/l		no
24/8/2015	MW7	1,1,1,2-tetrachloroethane	Annual	<1	<1	ug/l		no
24/8/2015	MW7	Ethylbenzene	Annual	<1	<1	ug/l	10 ug/l	no
24/8/2015	MW7	Xylene P&M	Annual			ug/l		no
24/8/2015	MW7	Styrene	Annual	<1	<1	ug/l		no
24/8/2015	MW7	Isopropylbenzene	Annual	<1	<1	ug/l		no
24/8/2015	MW7	1,1,2,2-tetrachloroethane	Annual	<1	<1	ug/l		no
24/8/2015	MW7	1,2,3-trichloropropane	Annual	<1	<1	ug/l		no
24/8/2015	MW7	Propylbenzene	Annual			ug/l		no
24/8/2015	MW7	2-chlorotoluene	Annual	<1	<1	ug/l		no
24/8/2015	MW7	4-chlorotoluene	Annual	<1	<1	ug/l		
24/8/2015	MW7	1,3,5-trimethylbenzene	Annual	<1	<1	ug/l		no
24/8/2015	MW7	Tert Butyl Benzene	Annual	<1	<1	ug/l		no
24/8/2015	MW7	1,2,4-trimethylbenzene	Annual	<1	<1	ug/l		no
24/8/2015	MW7	sec-butylbenzene	Annual	<1	<1	ug/l		no
24/8/2015	MW7	Pentachlorophenol	Annual	<0.01	<0.01	ug/l	2.0 ug/l	no
24/8/2015	MW7	Tetrachloroethene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW7	Hexachlorobenzene	Annual	<0.01	<0.01	ug/l	0.03 ug/l	no
24/8/2015	MW7	Hexachlorobutadiene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW7	2,4,6-Trichlorophenol	Annual	<0.01	<0.01	ug/l	200 ug/l	no
24/8/2015	MW7	2,4-Dichlorophenol	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW7	2,4-Dimethylphenol	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW7	2-Chlorophenol	Annual	<0.01	<0.01	ug/l	200 ug/l	no
24/8/2015	MW7	1,2,4-trichlorobenzene	Annual	<0.01	<0.01	ug/l		no
24/8/2015	MW7	1,2-dichlorobenzene	Annual	<0.01	<0.01	ug/l		

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2015				
24/8/2015	MW7	1,3-dichlorobenzene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	1,4-dichlorobenzene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	2,4,5-Trichlorophenol		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	2,4-Dinitrotoluene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	2,6-Dinitrotoluene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	2-Chloronaphthalene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	2-Methylnaphthalene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	2-Methylphenol		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	2-Nitrophenol		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	4-Bromophenyl Phenyl Ether		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	4-Chloro-3-methylphenol		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	4-Chlorophenyl phenyl ether		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	4-Nitrophenol		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Acenaphthene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Benzo(a)anthracene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Benzo(a)pyrene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Benzo(b)fluoranthene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Benzo(g,h,i)perylene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Benzyl Butyl Phthalate		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Bis(2-chloroethoxy)methane		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Bis(2-chloroethyl)ether		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Bis(2-chloroisopropyl)ether		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Bis(2-ethylhexyl)phthalate		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Dibenz(a,h)anthracene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Dibenzofuran		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Diethylphthalate		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	di-n-Butylphthalate		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Di-n-octylphthalate		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Diphenylamine		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Hexachloroethane		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Indeno(1,2,3-c,d)pyrene		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Isophorone		Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Nitrobenzene		Annual	<0.01	<0.01	ug/l		10 ug/l	no

Groundwater/Soil monitoring template			Lic No:	W0068-03	Year	2015	
24/8/2015	MW7	n-Nitrosodi-n-propylamine	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Acetone	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Dichloromethane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Tetrahydrofuran	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Toluene	Annual	<0.01	<0.01	ug/l	10 ug/l
24/8/2015	MW7	Xylene -o	Annual	<0.01	<0.01	ug/l	10 ug/l
24/8/2015	MW7	Dichlorodifluoromethane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Ethyl Chloride/Chloroethane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Ethyl Ether/Diethyl Ether	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Iodomethane/Methyl Iodide	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Carbon Disulphide	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Allyl Chloride	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Chloromethyl Cyanide/Chloroacetonitrile	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Propanenitrile	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Trans-1,2 Dichloroethene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	MtBE	Annual	<0.01	<0.01	ug/l	30 ug/l
24/8/2015	MW7	2,2-dichloropropane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	cis-1,2 Dichloroethene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	2-Butanone	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Methyl Acrylate	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Bromochloromethane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Methacrylonitrile	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	1-Chlorobutane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Carbon Tetrachloride	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Dibromomethane	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Methyl Methacrylate	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	1,3-Dichloropropene,cis	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	MIBK/4 Methyl 2 Pentanone	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	1,3-Dichloropropene,trans	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Ethyl Methacrylate	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Bromobenzene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	Trans 1,4 Dichloro 2 Butene, trans	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	P Isopropyltoluene	Annual	<0.01	<0.01	ug/l	no
24/8/2015	MW7	N Butyl Benzene	Annual	<0.01	<0.01	ug/l	no

Groundwater/Soil monitoring template Lic No: W0068-03 Year 2015

24/8/2015	MW7	1,2-dibromo-3-chloropropane	Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	1,2,3-trichlorobenzene	Annual	<0.01	<0.01	ug/l			no
24/8/2015	MW7	Mecoprop	Annual	<0.01	<0.01	ug/l	0.075 ug/l		
24/8/2015	MW7	Bentazone	Annual	<0.01	<0.01	ug/l	0.075 ug/l		no
24/8/2015	MW7	Simazine	Annual	<0.01	<0.01	ug/l	0.075 ug/l		no
Quarterly	MW2	pH	Quarterly	7.9	7.6	UNITS		9.5	no
Quarterly		Temp	Quarterly					25	no
Quarterly		Elec.Conductivity	Quarterly	45.1	44.1	uS/cm		1000	no
Quarterly		Chlorides	Quarterly	18868	17212	mg/l		250	no
Quarterly		Ammoniacal Nitrogen	Quarterly	4.16	2.91	mg/l		no limit set	no
Quarterly		Iron	Quarterly	44	11.1			1.2	no
Quarterly		TON	Quarterly	<0.2	<0.2	mg/l		No abnormal change	no
Quarterly		TOC	Quarterly	9.7	8.03	mg/l		no limit set	no
Quarterly	MW3	pH	Quarterly	7.4	7.25	UNITS		9.5	no
Quarterly		Temp	Quarterly					25	no
Quarterly		Elec.Conductivity	Quarterly	15.6	5.94	uS/cm		1000	no
Quarterly		Chlorides	Quarterly	5040	1783	mg/l		250	no
Quarterly		Ammoniacal Nitrogen	Quarterly	26	9.81	mg/l		no limit set	no
Quarterly		Iron	Quarterly	4084	1032			1.2	no
Quarterly		TON	Quarterly	3.17	0.91	mg/l		No abnormal change	no
Quarterly		TOC	Quarterly	38.4	20.36	mg/l		no limit set	no
Quarterly	MW5	pH	Quarterly	7.2	7.05	UNITS		9.5	no
Quarterly		Temp	Quarterly					25	no
Quarterly		Elec.Conductivity	Quarterly	5.6	3.96	uS/cm		1000	no
Quarterly		Chlorides	Quarterly	1732	1109	mg/l		250	no
Quarterly		Ammoniacal Nitrogen	Quarterly	1.3	1.26	mg/l		no limit set	no
Quarterly		Iron	Quarterly	0.046	0.046			1.2	no
Quarterly		TON	Quarterly	<0.2	<0.2	mg/l		No abnormal change	no
Quarterly		TOC	Quarterly	25	25	mg/l		no limit set	no

*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 \(IGV\)](#)

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:

W0068-03

Year

2015

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

		Commentary	
1	ELRA initial agreement status	Submitted and not agreed by EPA;	Site Operational
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	Continued Local Authority Responsibility as covered under the Annual Budget of Costs.
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:	W0068-03	Year	2015
---	---------	----------	------	------

	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 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 number of complaints, annually, to less than 3	100	Improvement of gas extraction system and operational controls. Additional flow controls added to existing well heads.	Site Staff	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Improve annual recycling rate by 3%	80	Improvement of Civic Amenity Site layout and improved maintenance of existing infrastructure. Improved sign markings and road sign markings.	Site Staff & Management	Improved use by customers.
Additional improvements	Improve Site Security	80	Liasing with Security Company and An Gardaí Síochana to deter would-be intruders. Introduction of "infra-red" cameras and additional intruder beams.	Site Staff & Management	Cleaner site and improved Health & Safety practice. Energy saving due to the removal of night-time site lighting.
Additional improvements	To control environmental nuisances at the facility	95	Reduction of litter & improved site practices	Site Staff & Management	Increased compliance with licence conditions
Leachate collection	Provision of pumping facilities to capture all run-off generated at site.	90	Additional sump constructed on Cell 9 to capture leachate run-off.	Site Staff & Management	Increased compliance with licence conditions
Gas extraction system	Improved gas intake to flare unit and more efficient burning of gas	95	Improvement of site practice to ensure increased gas capture	Site Staff	Increased compliance with licence conditions

Noise monitoring summary report

Lic No: W0068-03

Year

2015

1 Was noise monitoring a licence requirement for the AER period?

Yes

If yes please fill in table N1 noise summary below

2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?

[Noise
Guidance
note NG4](#)

Yes

3 Does your site have a noise reduction plan

SELECT

4 When was the noise reduction plan last updated?

Enter date

5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

No

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)?
26/8/2015	30 min	N1		46.3	43.4	48.3	68.1	No	SELECT	Traffic from N25.	Yes
	30 min	N1		47.2	43.8	49.1	65.5	No		Bird calls	Yes
	30 min	N1		47.2	37.8	49.4	73.2	No		occasional bang from JCB working on site	Yes
	30 min	N2		48.4	45.5	50.5	57.9	No		Traffic N25	Yes
	30 min	N2		48.8	45.5	51	61.4	No		Windy during surveying	Yes
	30 min	N2		48.4	45.4	50.5	64.4	No			Yes
	30 min	N3		45.8	34	44.9	77.6	No		Traffic from N25.	Yes
	30 min	N3		40	35.1	42.1	64.4	No		Country noise of birds and trees shaking	Yes
	30 min	N3		39.1	34.6	40.4	63.4	No			Yes
	30 min	N4		50.1	46.5	52.4	66.9	No		Traffic N25	Yes
	30 min	N4		49.9	46.8	51.9	64.2	No		Traffic leaving and entering site	Yes
	30 min	N4		50.4	47	52.2	74.5	No			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?

Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary

Lic No:

W0068-03

Year

2015

Additional information

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- 2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

	2015	
No		
Select		

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	93.65	84.08	-10%	
Total Energy Generated (MWHrs)	0	0		
Total Renewable Energy Generated (MWHrs)	0	0		
Electricity Consumption (MWHrs)	93.65	84.08	-10%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	0.2	0.2	0.00%	
Light Fuel Oil (m3)	17	17	0%	
Natural gas (m3)	0	0	0	
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

Water use	Water extracted		Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Water Emissions		Water Consumption	
	Previous year m3/yr.	Current year m3/yr.			Volume Discharged back to environment(m ³ /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:	
Groundwater								
Surface water								
Public supply	202	178	-12%	N/A	178	N/A		
Recycled water								
Total	202	178	-12%		178			

* 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

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

Resource Usage/Energy efficiency summary	Lic No: W0068-03	Year	2015
---	------------------	------	------

Table R4: Energy Audit finding recommendations							
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Status and comments
Jun-15	Replacement of lighting	Replace units when fa	energy audit	10%	Jan-16	Site management	Energy Audit find
			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					

WASTE SUMMARY	Lic No: W0068-03	Year: 2015
----------------------	------------------	------------

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

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		RELEASES TO AIR		Please enter all quantities in this section in KGs				
No. Annex II	Name	M/C/E	METHOD		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	C	OTH	Measured through analysis of flare flue gas emissions monitoring	0.0	545033.0	0.0	545033.0
02	Carbon monoxide (CO)	M	ISO 12039:2001	Measured through analysis of flare flue gas emissions monitoring	0.0	7.54	0.0	7.54
03	Carbon dioxide (CO2)	C	ISO 12039:2001	Measured through analysis of flare flue gas emissions monitoring	0.0	2151014.0	0.0	2151014.0
07	Non-methane volatile organic compounds	M	EN 13649:2001	Measured through analysis of flare flue gas emissions monitoring	0.0	16.27	0.0	16.27
08	Nitrogen oxides (NOx/NO2)	M	EN 14792:2005	Measured through analysis of flare flue gas emissions monitoring	0.0	353.34	0.0	353.34
11	Sulphur oxides (SOx/SO2)	M	EN 14791:2005	Measured through analysis of flare flue gas emissions monitoring	0.0	187.55	0.0	187.55
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0
					0.0	0.0	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

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

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

Additional Data Requested from Landfill operators

For the purpose of the annual inventory of greenhouse gases, landfill operators are requested to provide summary data on landfill gas (Methane)

Landfill: Youghal Landfill					
Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour
	Total estimated methane generation (as per site model)	C	Method Code	Designation or Description	N/A
	Methane flared	M	OTH	Measured through analysis of flare flue gas emissions monitoring	1380.0 (Total Flaring Capacity)
	Methane utilised in engine/s	0.0			0.0 (Total Utilising Capacity)
	Net methane emission (as reported in Section A above)	C	OTH	Gas Sim model and measured through analysis of flare flue gas emissions monitoring	N/A

WASTE SUMMARY

Lic No:

W0068-03

Year

2015

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR#: W0068 | Facility Name : Youghal Landfill | Filename : AER summary Youghal 2015.xtsm | Return Year : 2015 |

24/03/2016 09:11

Please enter all quantities on this sheet in Tonnes

3

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 Recoverer/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recoverer/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 05	Yes	1.94	mineral-based non-chlorinated engine, gear and lubricating oils	R9	M	Weighed	Offsite in Ireland	Enva Ltd,W0184-01	Enva Ltd,W0184-01,Clonminam Estate,Portlaoise,Co Laois,,Ireland	Enva Ltd,W0184-01,Clonminam Industrial Estate,Portlaoise,Co Laois,,Ireland	Clonminam Industrial Estate,Portlaoise,Co Laois,,Ireland
Within the Country	15 01 01	No	70.76	paper and cardboard packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Ltd,W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,,Ireland		
Within the Country	15 01 02	No	21.49	plastic packaging	R5	M	Weighed	Offsite in Ireland	Green Dragon Recycling,CK/09/0629/01	Corbally North,Glanmire, Cork,,Ireland		
Within the Country	15 01 04	No	7.5	metallic packaging	R4	M	Weighed	Offsite in Ireland	Green Dragon Recycling,CK/09/0629/01	Corbally North,Glanmire, Cork,,Ireland		
Within the Country	15 01 07	No	65.12	glass packaging	R5	M	Weighed	Offsite in Ireland	Mr. Binman,W0061-01	Luddenmore,Grange,Kilmalock,Co Limerick,Ireland		
Within the Country	16 06 01	Yes	0.9	lead batteries	R4	M	Weighed	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappinacur Industrial Estate,Tullamore,Co Offlay,,Ireland	KMK Metals Ltd,W0133-03,Cappinacur Industrial Estate,Tullamore,Co Offlay,,Ireland	Cappinacur Industrial Estate,Tullamore,Co Offlay,,Ireland
Within the Country	19 07 03	No	3634.19	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Cork County Council,,	Carrigtohill Wastewater Treatment Plant,Tullagreen, Carrigtohill ,Co Cork,Ireland		
Within the Country	20 01 01	No	88.08	paper and cardboard	R3	M	Weighed	Offsite in Ireland	Greenstar Ltd,W0136-01	Sarsfield Court Industrial Estate,Glanmire, Cork,,Ireland		
Within the Country	20 01 02	No	7.5	glass	R5	M	Weighed	Offsite in Ireland	MSM Recycling,W0079-01	Cookstown Industrial Estate,Tallaght,Dublin,D 24,Ireland		
Within the Country	20 01 11	No	7.68	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 27	Yes	3.4	paint, inks, adhesives and resins containing dangerous substances	R1	M	Weighed	Offsite in Ireland	Enva Ltd,W0184-01	Enva Ltd,W0184-01,Clonminam Industrial Estate,Portlaoise,Co Laois,,Ireland	Enva Ltd,W0184-01,Clonminam Industrial Estate,Portlaoise,Co Laois,,Ireland	Clonminam Industrial Estate,Portlaoise,Co Laois,,Ireland

WASTE SUMMARY	Lic No:	W0068-03	Year	2015
----------------------	---------	----------	------	------

Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 115.5 20 01 23 and 20 01 35	R4	M	Weighted	Offsite in Ireland	KMK Metals Ltd,W0133-03	Cappinacur Industrial Estate,Tullamore,Co Offlay,,Ireland
Within the Country	20 01 38	No	wood other than that mentioned in 20 01 37	R13	M	Weighted	Offsite in Ireland	CTO Environmental Solutions Ltd,CK/09/0068/02	Rostellan,Midlet on,Co
Within the Country	20 01 40	No	46.34 metals	R4	M	Weighted	Offsite in Ireland	478/07	Cork,,Ireland
Within the Country	20 02 01	No	48.18 biodegradable waste	R3	M	Weighted	Offsite in Ireland	Greenstar Ltd,W0136-01	Road,Togher,Cor Industrial

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

- 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
- 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
- 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

Additional Information	
No	
No	
No	

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

Licensed annual tonnage limit for your site (total tonnes/annum)	EWG code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWG code European Waste Catalogue EWG 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
- 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
- 6 Does your facility have relevant nuisance controls in place?
- 7 Do you have an odour management system in place for your facility? If no why?
- 8 Do you maintain a sludge register on site?

SELECT	
SELECT	
SELECT	
SELECT	
SELECT	

WASTE SUMMARY	Lic No:	W0068-03	Year	2015
----------------------	---------	----------	------	------

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
Household & Commercial	128,000	0		Void Area is almost completely filled. Waste has ceased to be accepted but management of Cork County Council have yet to decide when to fill the remaining void.
Industrial non-haz	27,000	0	180	
Construction&Demolition Waste	5,300	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
Cell 9	Dec-08	Temporary Cease Feb 2012	Yes	Public	Non Hazardous	2017	No	No	No	80000	40000	40000

WASTE SUMMARY	Lic No: W0068-03	Year: 2015
----------------------	------------------	------------

Table 4 Environmental monitoring-landfill only [Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments
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	17,000 square metres	81,800 square metres	0	17,000 square metres	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?

SELECT

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

SELECT

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
8784.75	320.2	1730.6	1235	2387.1	No	Wastewater Treatment Plant with Mixing tank, Oxidation ditch & Settlement tanks	Values are in line with than previous years due but with an increased volume of leachate taken off-site. This indicates a further reduction in the parameter results of the leachate at Youghal Landfill. This is attributed to the greater capture of dilute leachate from Cell 9.

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
561814 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. Well heads and flanked areas are repaired to improve gas system coverage at the site. Ongoing on-site maintenance.

Comments on liner type
liner with

