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Table heading *	table headings followed by a symb
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ie top right corner contain a comment box with further instructions or clarification

Facility Information Summary	
AER Reporting Year	2015
Licence Register Number	W0023-1
Name of site	RAFFEEN CAS AND LANDFILL (CLOSED)
Site Location	Cork County Council, Raffeen, Monkstown, CO. Cork
NACE Code	3821
Class/Classes of Activity	5(c), 5(d), 50.1
National Grid Reference (6E, 6 N)	1751E 0654N
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 <b>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.</b>	Raffeen CAS is a recycling facility that accepts household materials such as Domestic waste, food cans, beverage cans, glass bottles, rubble/DIY, paper, Cardboard, Newspapers and Magazines, Paint, Batteries, Waste Engine Oil, Fluorescent Tubes, Scrap Metal, Timber, Flat Glass, Green Waste, Textiles, Waste Cooking Oil & WEEE. The CAS has been open to the public for recycling and disposal since late 2005. The attached landfill was in operation from 1979 until -October 2001. No complaints were made against the facility during 2015. 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.

Signature Group/Facility manager (or nominated, suitably qualified and experienced deputy)	
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<b>AIR-summary template</b>	Lic No: W0023-1	Year: 2015
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Answer all questions and complete all tables where relevant

- 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

Additional information	
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	
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- 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	
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**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	60298	m3	yes	MAB		
Flare Stack	Carbon dioxide (CO2)	Continuous	N/A	SELECT	43758	m3	yes	ISO 12039:2001		
Flare Stack	Carbon monoxide (CO)	Continuous	<50mg/Nm3	No 30min mean can exceed the ELV	5.48	mg/Nm3	yes	ISO 12039:2001		
Flare Stack	Nitrogen oxides (NOx/NO2)	Annual	<150mg/Nm3	No 30min mean can exceed the ELV	26.77	mg/Nm3	yes	EN 14792:2005		
Flare Stack	Sulphur oxides (SOx/SO2)	Annual	N/A	SELECT	23.5	mg/Nm3	yes	EN 14791:2005		
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

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<b>Continuous Monitoring</b>				

4	Does your site carry out continuous air emissions monitoring?	<input type="checkbox"/> Yes	
	If yes please review your continuous monitoring data and report the required fields below in Table 3 and compare it to its relevant Emission Limit Value (ELV)		
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below	<input type="checkbox"/> Yes	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	<input type="checkbox"/> Yes	
7	Did your site experience any abatement system bypasses? If yes please detail them in table 4 below	<input type="checkbox"/> No	

**Table A2: Summary of average emissions -continuous monitoring**

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
Flare Stack	PRTR	N/A	12 month	100 % of values < ELV	m3					
	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



nary template-WATER/WASTEWATER(SEWER)			Lic No:	W0023-1	Year:	2015
			Additional information			

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 surface water analysis and visual inspections

No

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 Surface 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		SELECT	Ammonia (as N)	05/01/15		N/A	0.03	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	16/01/15		N/A	0.006	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/01/15		N/A	0.012	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	28/01/15		N/A	<0.005	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	02/04/2015		N/A	0.008	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	02/09/2015		N/A	0.021	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	20/2/2015		N/A	0.074	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	26/2/2015		N/A	0.045	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/05/2015		N/A	0.029	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/12/2015		N/A	0.124	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	19/03/15		N/A	<0.005	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/3/2015		N/A	0.052	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	04/02/2015		N/A	0.017	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	04/10/2015		N/A	0.063	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	17/04/15		N/A	0.013	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	23/04/15		N/A	0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/04/15		N/A	0.062	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	05/08/2015		N/A	0.025	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/05/15		N/A	0.006	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	28/05/15		N/A	0.029	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/06/15		N/A	0.025	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	07/08/15		N/A	0.05	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/7/2015		N/A	0.05	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/7/2015		N/A	0.03	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/7/2015		N/A	0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	08/04/15		N/A	0.04	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	13/8/2015		N/A	0.04	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	18/8/2015		N/A	0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/8/2015		N/A	0.05	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	09/01/15		N/A	0.08	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	09/11/15		N/A	0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/9/2015		N/A	<0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	24/9/2015		N/A	0.03	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/01/2015		N/A	0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/09/2015		N/A	<0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	14/10/2015		N/A	0.03	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	20/10/2015		N/A	0.03	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	29/10/2015		N/A	0.04	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	11/06/2015		N/A	0.04	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	13/11/2015		N/A	<0.02	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	17/11/2015		N/A	0.21	mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)	27/11/2015		N/A	<0.02	mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)	12/01/2015		N/A	0.04	mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)	12/08/15		N/A	0.05	mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)	14/12/2015		N/A	0.12	mg/L	SELECT	WEEKLY	
	SELECT	Ammonia (as N)	21/12/2015		N/A	0.19	mg/L	SELECT	WEEKLY	
SW2		SELECT	Ammonia (as N)	05/01/15		N/A	29	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	16/01/15		N/A	18.7	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/01/15		N/A	25.4	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	28/01/15		N/A	20.6	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	02/04/2015		N/A	28.6	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	02/09/2015		N/A	27.9	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	20/2/2015		N/A	36.8	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	26/2/2015		N/A	29.8	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/05/2015		N/A	28.7	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/12/2015		N/A	24.5	mg/L	SELECT	WEEKLY

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		SELECT	Ammonia (as N)	19/03/15	N/A	25.4	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/3/2015	N/A	29.5	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	04/02/2015	N/A	28.7	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	04/10/2015	N/A	27.8	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	17/04/15	N/A	17.3	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	23/04/15	N/A	27.4	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/04/15	N/A	27	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	05/08/2015	N/A	17.8	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/05/15	N/A	26.8	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	28/05/15	N/A	24.5	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/06/15	N/A	38.5	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	07/08/15	N/A	25.3	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/7/2015	N/A	23.3	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/7/2015	N/A	23.7	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/7/2015	N/A	20.7	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	08/04/15	N/A	23.3	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	13/8/2015	N/A	24.4	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	18/8/2015	N/A	25.2	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/8/2015	N/A	24	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	09/01/15	N/A	23.4	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	09/11/15	N/A	22.6	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/9/2015	N/A	22	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	24/9/2015	N/A	22.7	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/01/2015	N/A	23.2	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/09/2015	N/A	21.9	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	14/10/2015	N/A	25.2	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	20/10/2015	N/A	23.7	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	29/10/2015	N/A	23	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	11/06/2015	N/A	21.7	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	13/11/2015	N/A	18.8	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	17/11/2015	N/A	17.9	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/11/2015	N/A	21.8	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	12/01/2015	N/A	25.6	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	12/08/15	N/A	14.5	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	14/12/2015	N/A	19.9	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/12/2015	N/A	26.6	mg/L	SELECT	WEEKLY
SWZA		SELECT	Ammonia (as N)	05/01/15	N/A	0.156	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	16/01/15	N/A	0.19	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/01/15	N/A	0.244	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	28/01/15	N/A	0.218	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	02/04/2015	N/A	0.457	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	02/09/2015	N/A	0.418	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	20/2/2015	N/A	0.412	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	26/2/2015	N/A	0.276	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/05/2015	N/A	0.261	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/12/2015	N/A	0.172	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	19/03/15	N/A	0.204	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/3/2015	N/A	0.293	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	04/02/2015	N/A	0.38	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	04/10/2015	N/A	0.415	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	17/04/15	N/A	0.681	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	23/04/15	N/A	0.418	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/04/15	N/A	8.71	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	05/08/2015	N/A	0.201	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/05/15	N/A	0.153	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	28/05/15	N/A	0.25	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/06/15	N/A	0.207	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	07/08/15	N/A	0.2	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/7/2015	N/A	0.25	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/7/2015	N/A	0.25	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/7/2015	N/A	0.21	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	08/04/15	N/A	0.18	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	13/8/2015	N/A	0.21	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	18/8/2015	N/A	0.18	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/8/2015	N/A	0.26	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	09/01/15	N/A	0.25	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	09/11/15	N/A	0.12	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/9/2015	N/A	0.06	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	24/9/2015	N/A	0.13	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/01/2015	N/A	0.16	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/09/2015	N/A	0.2	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	14/10/2015	N/A	0.21	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	20/10/2015	N/A	0.26	mg/L	SELECT	WEEKLY



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		SELECT	Ammonia (as N)	29/10/2015	N/A	0.09	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	11/06/2015	N/A	0.11	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	13/11/2015	N/A	0.08	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	17/11/2015	N/A	0.24	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/11/2015	N/A	0.2	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	12/01/2015	N/A	0.2	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	12/08/15	N/A	0.23	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	14/12/2015	N/A	0.25	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/12/2015	N/A	0.5	mg/L	SELECT	WEEKLY
SW2B		SELECT	Ammonia (as N)	05/01/15	N/A	1.77	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	16/01/15	N/A	5.6	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/01/15	N/A	1.87	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	28/01/15	N/A	4.52	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	02/04/2015	N/A	4.95	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	02/09/2015	N/A	1.79	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	20/2/2015	N/A	1.82	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	26/2/2015	N/A	1.4	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/05/2015	N/A	7.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/12/2015	N/A	0.472	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	19/03/15	N/A	0.692	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/3/2015	N/A	2.95	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	04/02/2015	N/A	3.01	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	04/10/2015	N/A	17.1	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	17/04/15	N/A	1.58	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	23/04/15	N/A	0.886	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/04/15	N/A	0.355	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	05/08/2015	N/A	13.3	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/05/15	N/A	0.959	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	28/05/15	N/A	25.3	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/06/15	N/A	12.5	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	07/08/15	N/A	9	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/7/2015	N/A	5.7	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/7/2015	N/A	7.65	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/7/2015	N/A	4.45	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	08/04/15	N/A	4.6	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	13/8/2015	N/A	2.22	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	18/8/2015	N/A	3.88	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/8/2015	N/A	1.93	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	09/01/15	N/A	0.29	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	09/11/15	N/A	2.95	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/9/2015	N/A	2.28	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	24/9/2015	N/A	9.71	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/01/2015	N/A	15.1	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/09/2015	N/A	9.58	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	14/10/2015	N/A	9.87	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	20/10/2015	N/A	9.81	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	29/10/2015	N/A	4.82	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	11/06/2015	N/A	2.7	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	13/11/2015	N/A	1.75	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	17/11/2015	N/A	0.56	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/11/2015	N/A	4.64	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	12/01/2015	N/A	5.89	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	12/08/15	N/A	0.33	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	14/12/2015	N/A	0.35	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/12/2015	N/A	1.05	mg/L	SELECT	WEEKLY
SW3		SELECT	Ammonia (as N)	05/01/15	N/A	2.24	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	16/01/15	N/A	0.699	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/01/15	N/A	2.47	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	28/01/15	N/A	2.96	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	02/04/2015	N/A	5.05	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	02/09/2015	N/A	5.25	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	20/2/2015	N/A	5.25	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	26/2/2015	N/A	3.95	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/05/2015	N/A	3.93	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/12/2015	N/A	1.6	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	19/03/15	N/A	1.61	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/3/2015	N/A	5.67	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	04/02/2015	N/A	4.95	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	04/10/2015	N/A	4.1	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	17/04/15	N/A	0.763	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	23/04/15	N/A	8.74	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/04/15	N/A	2.39	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	05/08/2015	N/A	1.92	mg/L	SELECT	WEEKLY

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		SELECT	Ammonia (as N)	15/05/15	N/A	2.52	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	28/05/15	N/A	0.991	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/06/15	N/A	7.29	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	07/08/15	N/A	4.12	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/7/2015	N/A	4.15	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/7/2015	N/A	4.06	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/7/2015	N/A	2.52	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	08/04/15	N/A	3.43	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	13/8/2015	N/A	3.84	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	18/8/2015	N/A	5.17	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/8/2015	N/A	3.92	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	09/01/15	N/A	4.3	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	09/11/15	N/A	1.52	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/9/2015	N/A	1.67	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	24/9/2015	N/A	2.31	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/01/2015	N/A	4.04	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/09/2015	N/A	4.72	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	14/10/2015	N/A	7.53	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	20/10/2015	N/A	8.78	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	29/10/2015	N/A	2.46	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	11/06/2015	N/A	2.37	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	13/11/2015	N/A	1.71	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	17/11/2015	N/A	0.97	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/11/2015	N/A	1.62	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	12/01/2015	N/A	3.32	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	12/08/15	N/A	1.18	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	14/12/2015	N/A	1.55	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/12/2015	N/A	2.81	mg/L	SELECT	WEEKLY
sw4		SELECT	Ammonia (as N)	05/01/15	N/A	0.129	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	16/01/15	N/A	0.042	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/01/15	N/A	0.04	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	28/01/15	N/A	0.066	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	02/04/2015	N/A	0.07	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	02/09/2015	N/A	0.059	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	20/2/2015	N/A	0.058	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	26/2/2015	N/A	0.079	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/05/2015	N/A	0.06	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	03/12/2015	N/A	0.112	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	19/03/15	N/A	0.042	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/3/2015	N/A	0.105	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	04/02/2015	N/A	0.078	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	04/10/2015	N/A	0.198	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	17/04/15	N/A	0.07	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	23/04/15	N/A	0.11	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/04/15	N/A	0.099	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	05/08/2015	N/A	0.115	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/05/15	N/A	0.031	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	28/05/15	N/A	0.027	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/06/15	N/A	0.084	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	07/08/15	N/A	0.04	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/7/2015	N/A	0.04	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	21/7/2015	N/A	0.05	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	30/7/2015	N/A	0.1	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	08/04/15	N/A	0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	13/8/2015	N/A	<0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	18/8/2015	N/A	0.03	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/8/2015	N/A	0.08	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	09/01/15	N/A	0.04	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	09/11/15	N/A	0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	15/9/2015	N/A	<0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	24/9/2015	N/A	0.03	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/01/2015	N/A	0.19	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	10/09/2015	N/A	0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	14/10/2015	N/A	0.04	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	20/10/2015	N/A	0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	29/10/2015	N/A	0.04	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	11/06/2015	N/A	0.04	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	13/11/2015	N/A	<0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	17/11/2015	N/A	0.21	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	27/11/2015	N/A	0.03	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	12/01/2015	N/A	0.02	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	12/08/15	N/A	0.06	mg/L	SELECT	WEEKLY
		SELECT	Ammonia (as N)	14/12/2015	N/A	0.12	mg/L	SELECT	WEEKLY

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SW5	SELECT	Ammonia (as N)	21/12/2015	N/A	0.21	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	05/01/15	N/A	<0.005	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	16/01/15	N/A	<0.005	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	21/01/15	N/A	<0.005	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	28/01/15	N/A	<0.005	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	02/04/2015	N/A	0.008	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	02/09/2015	N/A	0.032	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	20/2/2015	N/A	<0.005	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	26/2/2015	N/A	<0.005	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	03/05/2015	N/A	0.037	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	03/12/2015	N/A	<0.005	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	19/03/15	N/A	<0.005	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	27/3/2015	N/A		mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	04/02/2015	N/A	0.007	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	04/10/2015	N/A	<0.005	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	17/04/15	N/A	<0.005	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	23/04/15	N/A		mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	30/04/15	N/A	0.022	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	05/08/2015	N/A	<0.005	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	15/05/15	N/A	<0.005	mg/L	SELECT	WEEKLY
	SELECT	Ammonia (as N)	28/05/15	N/A	0.033	mg/L	SELECT	WEEKLY
SELECT	Ammonia (as N)	30/06/15	N/A	<0.005	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	07/08/15	N/A	0.14	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	15/7/2015	N/A	<0.02	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	21/7/2015	N/A	<0.02	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	30/7/2015	N/A	<0.02	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	08/04/15	N/A	<0.02	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	13/8/2015	N/A	**	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	18/8/2015	N/A	**	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	27/8/2015	N/A	0.05	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	09/01/15	N/A	**	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	09/11/15	N/A	<0.02	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	15/9/2015	N/A	<0.02	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	24/9/2015	N/A	<0.02	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	10/01/2015	N/A	**	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	10/09/2015	N/A	**	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	14/10/2015	N/A	**	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	20/10/2015	N/A	<0.02	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	29/10/2015	N/A	<0.02	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	11/06/2015	N/A	<0.02	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	13/11/2015	N/A	0.03	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	17/11/2015	N/A	<0.02	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	27/11/2015	N/A	<0.02	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	12/01/2015	N/A	0.04	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	12/08/15	N/A	0.03	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	14/12/2015	N/A	0.11	mg/L	SELECT	WEEKLY	
SELECT	Ammonia (as N)	21/12/2015	N/A	0.11	mg/L	SELECT	WEEKLY	
SW1		pH	Quarterly	N/A	7.45	units	yes	Mean for 2015
		Temperature	Quarterly	N/A	12.54	degrees C	yes	Mean for 2015
		Conductivity	Quarterly	N/A	243	µS/cm @20oC	yes	Mean for 2015
		Dissolved Oxygen	Quarterly	N/A	12.85	mg/L	yes	Mean for 2015
		Chlorides (as Cl)	Quarterly	N/A	24.47	mg/L	yes	Mean for 2015
		BOD	Quarterly	N/A	<1	mg/L	yes	Mean for 2015
		COD	Quarterly	N/A	<10	mg/L	yes	Mean for 2015
		Ammonia (as N)	Quarterly	N/A	0.034	mg/L	yes	Mean for 2015
		Suspended Solids	Quarterly	N/A	<2	mg/L	yes	Mean for 2015
		Chromium and compounds (as Cr)	Annual	N/A	<1	ug/l	yes	Annual
		Copper and compounds (as Cu)	Annual	N/A	1.2	ug/l	yes	Annual
		Cadmium and compounds (as Cd)	Annual	N/A	<1	ug/l	yes	Annual
		Iron	Annual	N/A	0.245	ug/l	yes	Annual
		Lead and compounds (as Pb)	Annual	N/A	<1	ug/l	yes	Annual
		Magnesium	Annual	N/A	6.32	mg/l	yes	Annual
		Manganese (as Mn)	Annual	N/A	0.032	ug/l	yes	Annual
		Mercury and compounds (as Hg)	Annual	N/A	<0.5	ug/l	yes	Annual
		Potassium	Annual	N/A	2.81	mg/l	yes	Annual
		Sulphate	Annual	N/A	14	mg/l	yes	Annual
		Total Oxidised Nitrogen (TON)	Annual	N/A	6.63	mg/l	yes	Annual
		Zinc and compounds (as Zn)	Annual	N/A	<25	ug/l	yes	Annual

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	Total phosphorus	Annual		N/A	<0.004	mg/l	yes	Annual
	Sodium	Annual			13.3	mg/l	yes	Annual
	Calcium	Annual			29	mg/l	yes	Annual
<b>SW2</b>	<b>pH</b>	<b>Quarterly</b>			<b>6.9</b>	<b>units</b>		<b>Mean for 2015</b>
	Temperature	Quarterly			12.31	degrees C		Mean for 2015
	Conductivity	Quarterly			881	µS/cm @20oC		Mean for 2015
	Dissolved Oxygen	Quarterly			8.6	mg/L		Mean for 2015
	Chlorides (as Cl)	Quarterly			80.25	mg/L		Mean for 2015
	BOD	Quarterly			1.8	mg/L		Mean for 2015
	COD	Quarterly			22.5	mg/L		Mean for 2015
	Ammonia (as N)	Quarterly			26.25	mg/L		Mean for 2015
	Suspended Solids	Quarterly			34.75	mg/L		Mean for 2015
	Chromium and compounds (as Cr)	Annual			<1	ug/l	yes	Annual
	Copper and compounds (as Cu)	Annual			1.1	ug/l	yes	Annual
	Cadmium and compounds (as Cd)	Annual			<1	ug/l	yes	Annual
	Iron	Annual			6.57	ug/l	yes	Annual
	Lead and compounds (as Pb)	Annual			<1	ug/l	yes	Annual
	Magnesium	Annual			18.8	mg/l	yes	Annual
	Manganese (as Mn)	Annual			2.36	ug/l	yes	Annual
	Mercury and compounds (as Hg)	Annual			<0.5	ug/l	yes	Annual
	Potassium	Annual			19.7	mg/l	yes	Annual
	Sulphate	Annual			<0.5	mg/l	yes	Annual
	Total Oxidised Nitrogen (TON)	Annual			0.6	mg/l	yes	Annual
	Zinc and compounds (as Zn)	Annual			<25	ug/l	yes	Annual
	Total phosphorus	Annual			0.09	mg/l	yes	Annual
	Sodium	Annual			53.8	mg/l	yes	Annual
	Calcium	Annual			64.5	mg/l	yes	Annual
<b>sw2a</b>	<b>pH</b>	<b>Quarterly</b>			<b>7.25</b>	<b>units</b>		<b>Mean for 2015</b>
	Temperature	Quarterly			11.86	degrees C		Mean for 2015
	Conductivity	Quarterly			281	µS/cm @20oC		Mean for 2015
	Dissolved Oxygen	Quarterly			12.9	mg/L		Mean for 2015
	Chlorides (as Cl)	Quarterly			348	mg/L		Mean for 2015
	BOD	Quarterly			<1	mg/L		Mean for 2015
	COD	Quarterly			11	mg/L		Mean for 2015
	Ammonia (as N)	Quarterly			0.2995	mg/L		Mean for 2015
	Suspended Solids	Quarterly			<2	mg/L		Mean for 2015
	Chromium and compounds (as Cr)	Annual			<1	ug/l	yes	Annual
	Copper and compounds (as Cu)	Annual			<1	ug/l	yes	Annual
	Cadmium and compounds (as Cd)	Annual			<1	ug/l	yes	Annual
	Iron	Annual			0.218	ug/l	yes	Annual
	Lead and compounds (as Pb)	Annual			<1	ug/l	yes	Annual
	Magnesium	Annual			7.2	mg/l	yes	Annual
	Manganese (as Mn)	Annual			0.085	ug/l	yes	Annual
	Mercury and compounds (as Hg)	Annual			<0.5	ug/l	yes	Annual
	Potassium	Annual			3.15	mg/l	yes	Annual
	Sulphate	Annual			15.4	mg/l	yes	Annual
	Total Oxidised Nitrogen (TON)	Annual			7.02	mg/l	yes	Annual
	Zinc and compounds (as Zn)	Annual			<25	ug/l	yes	Annual
	Total phosphorus	Annual			<0.04	mg/l	yes	Annual
	Sodium	Annual			17	mg/l	yes	Annual
	Calcium	Annual			29.8	mg/l	yes	Annual
<b>sw2b</b>	<b>pH</b>	<b>Quarterly</b>			<b>7.3</b>	<b>units</b>		<b>Mean for 2015</b>
	Temperature	Quarterly			12.03	degrees C		Mean for 2015
	Conductivity	Quarterly			3426	µS/cm @20oC		Mean for 2015
	Dissolved Oxygen	Quarterly			12.38	mg/L		Mean for 2015
	Chlorides (as Cl)	Quarterly			970	mg/L		Mean for 2015
	BOD	Quarterly			2.6	mg/L		Mean for 2015
	COD	Quarterly			15	mg/L		Mean for 2015
	Ammonia (as N)	Quarterly			5.6	mg/L		Mean for 2015
	Suspended Solids	Quarterly			8	mg/L		Mean for 2015
	Chromium and compounds (as Cr)	Annual			<1	ug/l	yes	Annual
	Copper and compounds (as Cu)	Annual			.1	ug/l	yes	Annual

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	Cadmium and compounds (as Cd)		Annual		<1	ug/l	yes		Annual
	Iron		Annual		0.098	ug/l	yes		Annual
	Lead and compounds (as Pb)		Annual		<1	ug/l	yes		Annual
	Magnesium		Annual		91.8	mg/l	yes		Annual
	Manganese (as Mn)		Annual		0.494	ug/l	yes		Annual
	Mercury and compounds (as Hg)		Annual		<0.5	ug/l	yes		Annual
	Potassium		Annual		36.2	mg/l	yes		Annual
	Sulphate		Annual		160	mg/l	yes		Annual
	Total Oxidised Nitrogen (TON)		Annual		9.31	mg/l	yes		Annual
	Zinc and compounds (as Zn)		Annual		<25	ug/l	yes		Annual
	Total phosphorus		Annual		0.12	mg/l	yes		Annual
	Sodium		Annual		654	mg/l	yes		Annual
	Calcium		Annual		76.7	mg/l	yes		Annual
sw3	pH	Quarterly			7.17	units			Mean for 2015
	Temperature	Quarterly			13.33	degrees C			Mean for 2015
	Conductivity	Quarterly			703.25	µS/cm @20oC			Mean for 2015
	Dissolved Oxygen	Quarterly			12.24	mg/L			Mean for 2015
	Chlorides (as Cl)	Quarterly			148	mg/L			Mean for 2015
	BOD	Quarterly			>1	mg/L			Mean for 2015
	COD	Quarterly			12	mg/L			Mean for 2015
	Ammonia (as N)	Quarterly			3.66	mg/L			Mean for 2015
	Suspended Solids	Quarterly			7.33	mg/L			Mean for 2015
	Chromium and compounds (as Cr)		Annual		<1	ug/l			Annual
	Copper and compounds (as Cu)		Annual		<1	ug/l			Annual
	Cadmium and compounds (as Cd)		Annual		<1	ug/l			Annual
	Iron		Annual		1.91	ug/l			Annual
	Lead and compounds (as Pb)		Annual		<1	ug/l			Annual
	Magnesium		Annual		15.4	mg/l			Annual
	Manganese (as Mn)		Annual		0.559	ug/l			Annual
	Mercury and compounds (as Hg)		Annual		<0.5	ug/l			Annual
	Potassium		Annual		9.64	mg/l			Annual
	Sulphate		Annual		21.3	mg/l			Annual
	Total Oxidised Nitrogen (TON)		Annual		10.5	mg/l			Annual
	Zinc and compounds (as Zn)		Annual		<25	ug/l			Annual
	Total phosphorus		Annual		<0.04	mg/l			Annual
	Sodium		Annual		53	mg/l			Annual
	Calcium		Annual		38.2	mg/l			Annual
sw4	pH	Quarterly			7.4	units			Mean for 2015
	Temperature	Quarterly			12.3	degrees C			Mean for 2015
	Conductivity	Quarterly			244	µS/cm @20oC			Mean for 2015
	Dissolved Oxygen	Quarterly			13.14	mg/L			Mean for 2015
	Chlorides (as Cl)	Quarterly			25.6	mg/L			Mean for 2015
	BOD	Quarterly			2	mg/L			Mean for 2015
	COD	Quarterly			10	mg/L			Mean for 2015
	Ammonia (as N)	Quarterly			0.59	mg/L			Mean for 2015
	Suspended Solids	Quarterly			2	mg/L			Mean for 2015
	Chromium and compounds (as Cr)		Annual		<1	ug/l	yes		Annual
	Copper and compounds (as Cu)		Annual		<1	ug/l	yes		Annual
	Cadmium and compounds (as Cd)		Annual		<1	ug/l	yes		Annual
	Iron		Annual		0.218	ug/l	yes		Annual
	Lead and compounds (as Pb)		Annual		<1	ug/l	yes		Annual
	Magnesium		Annual		6.3	mg/l	yes		Annual
	Manganese (as Mn)		Annual		0.029	ug/l	yes		Annual
	Mercury and compounds (as Hg)		Annual		<0.5	ug/l	yes		Annual
	Potassium		Annual		3.48	mg/l	yes		Annual
	Sulphate		Annual		14.1	mg/l	yes		Annual
	Total Oxidised Nitrogen (TON)		Annual		6.6	mg/l	yes		Annual
	Zinc and compounds (as Zn)		Annual		<25	ug/l	yes		Annual
	Total phosphorus		Annual		<0.04	mg/l	yes		Annual
	Sodium		Annual		13	mg/l	yes		Annual

inary template-WATER/WASTEWATER(SEWER)			Lic No:	W0023-1	Year	2015	
	Calcium	Annual		28.8	mg/l	yes	Annual
sw5	pH	Quarterly		8.1	units		Mean for 2015
	Temperature	Quarterly		12.8	degrees C		Mean for 2015
	Conductivity	Quarterly		478	µS/cm @20oC		Mean for 2015
	Dissolved Oxygen	Quarterly		11.89	mg/L		Mean for 2015
	Chlorides (as Cl)	Quarterly		16.12	mg/L		Mean for 2015
	BOD	Quarterly		<1	mg/L		Mean for 2015
	COD	Quarterly		.10	mg/L		Mean for 2015
	Ammonia (as N)	Quarterly		<0.02	mg/L		Mean for 2015
	Suspended Solids	Quarterly		.9	mg/L		Mean for 2015
	Chromium and compounds (as Cr)	Annual		<1	ug/l	yes	Annual
	Copper and compounds (as Cu)	Annual		<1	ug/l	yes	Annual
	Cadmium and compounds (as Cd)	Annual		<1	ug/l	yes	Annual
	Iron	Annual		0.028	ug/l	yes	Annual
	Lead and compounds (as Pb)	Annual		<1	ug/l	yes	Annual
	Magnesium	Annual		7.9	mg/l	yes	Annual
	Manganese (as Mn)	Annual		0.005	ug/l	yes	Annual
	Mercury and compounds (as Hg)	Annual		<0.5	ug/l	yes	Annual
	Potassium	Annual		3.28	mg/l	yes	Annual
	Sulphate	Annual		11.9	mg/l	yes	Annual
	Total Oxidised Nitrogen (TON)	Annual		2.56	mg/l	yes	Annual
	Zinc and compounds (as Zn)	Annual		<25	ug/l	yes	Annual
	Total phosphorus	Annual		<0.04	mg/l	yes	Annual
	Sodium	Annual		14.7	mg/l	yes	Annual
	Calcium	Annual		92.6	mg/l	yes	Annual

**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**

1 Please provide integrity testing frequency period

Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore")

3 type units and mobile bunds)

4 How many bunds are on site?

5 How many of these bunds have been tested within the required test schedule?

6 How many mobile bunds are on site?

7 Are the mobile bunds included in the bund test schedule?

8 How many of these mobile bunds have been tested within the required test schedule?

9 How many sumps on site are included in the integrity test schedule?

10 How many of these sumps are integrity tested within the test schedule?

**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?

No	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
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)
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		

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

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in

14 line with BS8007/EPA Guidance?

15 Are channels/transfer systems to remote containment systems tested?

16 Are channels/transfer systems compliant in both integrity and available volume?

[bundings and storage guidelines](#)

Commentary	
SELECT	
SELECT	
SELECT	

**Pipeline/underground structure testing**

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

1 underground structures and pipelines on site **which failed the integrity test**

2 Please provide integrity testing frequency period

SELECT	
SELECT	

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

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

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





Groundwater/Soil monitoring template				Lic No:	W0023-1	Year	2015	
GW2	Alpha-BHC	Annual	<0.01	ug/l	DWS	no		
GW2	Beta-BHC	Annual	<0.01	ug/l	DWS	no		
GW2	Delta-BHC	Annual	<0.01	ug/l	DWS	no		
GW2	Endosulphan I	Annual	<0.01	ug/l	DWS	no		
GW2	Endosulphan II	Annual	<0.01	ug/l	DWS	no		
GW2	Endosulfan Sulfate	Annual	<0.01	ug/l	DWS	no		
GW2	Endrin	Annual	<0.01	ug/l	DWS	no		
GW2	Endrin aldehyde	Annual	<0.01	ug/l	DWS	no		
GW2	Gamma-BHC (Lindane)	Annual	<0.01	ug/l	DWS	no		
GW2	4,4-DDD	Annual	<0.01	ug/l	DWS	no		
GW2	4-4-DDE	Annual	<0.01	ug/l	DWS	no		
GW2	4,4-DDT	Annual	<0.01	ug/l	DWS	no		
GW2	Aldrin	Annual	<0.01	ug/l	DWS	no		
GW2	Dieldrin	Annual	<0.01	ug/l	DWS	no		
GW2	Heptachlor	Annual	<0.01	ug/l	DWS	no		
GW2	Heptachlor Epoxide	Annual	<0.01	ug/l	DWS	no		
GW2	236-Trichlorobenzoic Acid (TBA)	Annual	<0.005	ug/l	DWS	no		
GW2	2,4,5-T	Annual	<0.005	ug/l	DWS	no		
GW2	2,4 D	Annual	<0.005	ug/l	DWS	no		
GW2	24-DB	Annual	<0.005	ug/l	DWS	no		
GW2	Bentazone	Annual	<0.005	ug/l	DWS	no		
GW2	Bromacil	Annual	<0.005	ug/l	DWS	no		
GW2	Bromoxynil	Annual	<0.005	ug/l	DWS	no		
GW2	Clopyralid	Annual	<0.005	ug/l	DWS	no		
GW2	Dicamba	Annual	<0.005	ug/l	DWS	no		
GW2	Dichlorprop (24DP)	Annual	<0.005	ug/l	DWS	no		
GW2	Flurozypyr	Annual	<0.005	ug/l	DWS	no		
GW2	loxynil	Annual	<0.005	ug/l	DWS	no		
GW2	MCPA	Annual	<0.005	ug/l	DWS	no		
GW2	MCPB	Annual	<0.005	ug/l	DWS	no		
GW2	Mecoprop (MCP)	Annual	<0.005	ug/l	DWS	no		
GW2	Pentachlorophenol (PCP)	Annual	<0.005	ug/l	DWS	no		
GW2	Picloram	Annual	<0.005	ug/l	DWS	no		
GW2	Quinmerac	Annual	<0.005	ug/l	DWS	no		
GW2	Trichlopyr	Annual	<0.005	ug/l	DWS	no		
GW2	Atrazine-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Simazine-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Prometryn-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Propazine-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Terbutryn-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Trietazine-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Azinphos Ethyl-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Azinphos-methyl-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Chlorfenvinphos-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Demeton-S-Methyl-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Diazinon-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Dichlorvos-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Dimethoate-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Malathion-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Mevinphos-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Phosalone LC	Annual	<0.005	ug/l	DWS	no		
GW2	Pirimiphos-methyl-LC	Annual	<0.005	ug/l	DWS	no		
GW2	Triazophos-LC	Annual	<0.005	ug/l	DWS	no		
GW2	PAHS	Annual	<0.01	ug/l	DWS	no		
GW2	VOC	Annual	<0.01	ug/l	DWS	no		
GW2	SVOCs	Annual	<0.01	ug/l	DWS	no		
GW2	Phenols	Annual	<0.03	ug/l	DWS	no		
* where average indicates arithmetic mean				ug/l	DWS	no		
um measured concentration from all monitoring results produced during the reporting year						no		

Groundwater/Soil monitoring template					Lic No:	W0023-1	Year	2015		
Downgradient Groundwater monitoring results										no
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	DWS	no
Mean of 2015	GW5	pH		quarterly	6.7	6.5	units	9.5	DWS	no
Mean of 2015	GW5	Temp		quarterly	13.4	12.26	C		DWS	no
Mean of 2015	GW5	Elec.Conductivity		quarterly	540	483	mS/cm	1000	DWS	no
Mean of 2015	GW5	Chlorides		quarterly			mg/l	250	DWS	no
Mean of 2015	GW5	Ammoniacal Nitorgen		quarterly	5.78	4.3	mg/l	0.02NH3	DWS	no
Mean of 2015	GW5	TON		quarterly	2.2	1.1	ug/l		DWS	no
Mean of 2015	GW5	SODIUM		quarterly	32.9	29.85	mg/l		DWS	no
Mean of 2015	GW5	POTASSIUM		quarterly	12	8.25	mg/l	5 mg/l	DWS	no
Annual	GW5	Cadmium		Annual	<1		ug/l	3.75 mg/l	DWS	no
22/9/2015	GW5	Chromium (total)		Annual	<1		ug/l	37.5	DWS	no
	GW5	Copper		Annual	1.2		ug/l	1500	DWS	no
	GW5	Cyanide (Total)		Annual	<0.01		ug/l	0.01mg/l	DWS	no
	GW5	Lead		Annual	<1		ug/l	18.75	DWS	no
	GW5	Magnesium		Annual	21.6		mg/l		DWS	no
	GW5	Manganese		Annual	5.502		ug/l	0.3mg/l	DWS	no
	GW5	Mercury		Annual	<0.5		ug/l	0.75	DWS	no
	GW5	Potassium		Annual	12		mg/l	5 mg/l	DWS	no
	GW5	Sulphate		Annual	19.6		mg/l	187.5 mg/l	DWS	no
	GW5	Total Alkalinity		Annual	247		mg/l		DWS	no
	GW5	Total Phosphorus		Annual	<0.04		mg/l		DWS	no
	GW5	Selenium total		Annual	8.9		ug/l		DWS	no
	GW5	Thallium total		Annual	<1		ug/l		DWS	no
	GW5	Tellurium total		Annual	<1		ug/l		DWS	no
	GW5	Vanadium		Annual	33.8		ug/l		DWS	no
	GW5	Alpha-BHC		Annual	<0.01		ug/l		DWS	no
	GW5	Beta-BHC		Annual	<0.01		ug/l		DWS	no
	GW5	Delta-BHC		Annual	<0.01		ug/l		DWS	no
	GW5	Endosulphan I		Annual	<0.01		ug/l		DWS	no
	GW5	Endosulphan II		Annual	<0.01		ug/l		DWS	no
	GW5	Endosulfan Sulfate		Annual	<0.01		ug/l		DWS	no
	GW5	Endrin		Annual	<0.01		ug/l		DWS	no
	GW5	Endrin aldehyde		Annual	<0.01		ug/l		DWS	no
	GW5	Gamma-BHC (Lindane)		Annual	<0.01		ug/l		DWS	no
	GW5	4,4-DDD		Annual	<0.01		ug/l		DWS	no
	GW5	4,4-DDE		Annual	<0.01		ug/l		DWS	no
	GW5	4,4-DDT		Annual	<0.01		ug/l		DWS	no
	GW5	Aldrin		Annual	<0.01		ug/l		DWS	no
	GW5	Dieldrin		Annual	<0.01		ug/l		DWS	no
	GW5	Heptachlor		Annual	<0.01		ug/l		DWS	no
	GW5	Heptachlor Epoxide		Annual	<0.01		ug/l		DWS	no
	GW5	236-Trichlorobenzoic Acid (TBA)		Annual	<0.005		ug/l		DWS	no
	GW5	2,4,5-T		Annual	<0.005		ug/l		DWS	no
	GW5	2,4 D		Annual	<0.005		ug/l		DWS	no
	GW5	24-DB		Annual	<0.005		ug/l		DWS	no
	GW5	Bentazone		Annual	<0.005		ug/l		DWS	no
	GW5	Bromacil		Annual	<0.005		ug/l		DWS	no
	GW5	Bromoxynil		Annual	<0.005		ug/l		DWS	no
	GW5	Clopyralid		Annual	<0.005		ug/l		DWS	no

Groundwater/Soil monitoring template					Lic No:	W0023-1		Year	2015		
		GW5	Dicamba		Annual	<0.005		ug/l		DWS	no
		GW5	Dichlorprop (24DP)		Annual	<0.005		ug/l		DWS	no
		GW5	Flurozypyr		Annual	<0.005		ug/l		DWS	no
		GW5	loxnyl		Annual	<0.005		ug/l		DWS	no
		GW5	MCPA		Annual	<0.005		ug/l		DWS	no
		GW5	MCPB		Annual	<0.005		ug/l		DWS	no
		GW5	Mecoprop (MCPB)		Annual	0.625		ug/l		DWS	no
		GW5	Pentachlorophenol (PCP)		Annual	<0.005		ug/l		DWS	no
		GW5	Picloram		Annual	<0.005		ug/l		DWS	no
		GW5	Quinmerac		Annual	<0.005		ug/l		DWS	no
		GW5	Trichlopyr		Annual	<0.005		ug/l		DWS	no
		GW5	Atrazine-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Simazine-LC		Annual	0.016		ug/l	0.075 ug/l	DWS	no
		GW5	Prometryn-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Propazine-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Terbutryn-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Trietazine-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Azinphos Ethyl-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Azinphos-methyl-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Chlorfenvinphos-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Demeton-S-Methyl-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Diazinon-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Dichlorvos-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Dimethoate-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Malathion-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Mevinphos-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Phosalone LC		Annual	<0.005		ug/l		DWS	no
		GW5	Pirimiphos-methyl-LC		Annual	<0.005		ug/l		DWS	no
		GW5	Triazophos-LC		Annual	<0.005		ug/l		DWS	no
		GW5	PAHS		Annual	<0.01		ug/l		DWS	no
		GW5	VOC		Annual	<0.01		ug/l		DWS	no
		GW5	SVOCs		Annual	<0.01		ug/l		DWS	no
		GW5	Phenols		Annual	<0.03		ug/l		DWS	no
	Mean of 2015	GW8	pH		quarterly	6.3	6.3	units	9.5	DWS	no
	mean of 2015	GW8	Temp		quarterly	12.3	11.8	C		DWS	no
	Mean of 2015	GW8	Elec.Conductivity		quarterly	498	1.87	mS/cm	1000	DWS	no
	mean of 2015	GW8	Chlorides		quarterly			mg/l	250	DWS	no
	Mean of 2015	GW8	Ammoniacal Nitrogen		quarterly	1.95	11	mg/l	0.02NH3	DWS	no
	mean of 2015	GW8	TON		quarterly	12.4	36	ug/l	1.0mg/l	DWS	no
	Mean of 2015	GW8	SODIUM		quarterly	47.8	7.75	mg/l		DWS	no
	mean of 2015	GW8	POTASSIUM		quarterly	10.1		mg/l		DWS	no
	Annual	GW8	Cadmium		Annual	<1		ug/l	3.75 mg/l	DWS	no
	09/03/2015	GW8	Chromium (total)		Annual	<1		ug/l	37.5	DWS	no
		GW8	Copper		Annual	1.2		ug/l	1500	DWS	no
		GW8	Cyanide (Total)		Annual	<0.01		ug/l	0.01mg/l	DWS	no
		GW8	Lead		Annual	<1		ug/l	18.75	DWS	no
		GW8	Magnesium		Annual	13		mg/l		DWS	no
		GW8	Manganese		Annual	0.175		ug/l	0.3mg/l	DWS	no
		GW8	Mercury		Annual	<0.5		ug/l	0.75	DWS	no
		GW8	Potassium		Annual	6.86		mg/l	5 mg/l	DWS	no
		GW8	Sulphate		Annual	16.7		mg/l	187.5	DWS	no
		GW8	Total Alkalinity		Annual	126		mg/l		DWS	no

Groundwater/Soil monitoring template			Lic No:	W0023-1	Year	2015	
GW8	Total Phosphorus	Annual	0.1	mg/l		DWS	no
GW8	Selenium total	Annual	6.6	ug/l		DWS	no
GW8	Thallium total	Annual	<1	ug/l		DWS	no
GW8	Tellurium total	Annual	<1	ug/l		DWS	no
GW8	Vanadium	Annual	2.4	ug/l		DWS	no
GW8	Alpha-BHC	Annual	<0.01	ug/l	0.5 ug/l	DWS	no
GW8	Beta-BHC	Annual	<0.01	ug/l		DWS	no
GW8	Delta-BHC	Annual	<0.01	ug/l	0.1 ug/l	DWS	no
GW8	Endosulphan I	Annual	<0.01	ug/l		DWS	no
GW8	Endosulphan II	Annual	<0.01	ug/l		DWS	no
GW8	Endosulfan Sulfate	Annual	<0.01	ug/l		DWS	no
GW8	Endrin	Annual	<0.01	ug/l		DWS	no
GW8	Endrin aldehyde	Annual	<0.01	ug/l		DWS	no
GW8	Gamma-BHC (Lindane)	Annual	<0.01	ug/l		DWS	no
GW8	4,4-DDD	Annual	<0.01	ug/l		DWS	no
GW8	4,4-DDE	Annual	<0.01	ug/l		DWS	no
GW8	4,4-DDT	Annual	<0.01	ug/l		DWS	no
GW8	Aldrin	Annual	<0.01	ug/l		DWS	no
GW8	Dieldrin	Annual	<0.01	ug/l		DWS	no
GW8	Heptachlor	Annual	<0.01	ug/l		DWS	no
GW8	Heptachlor Epoxide	Annual	<0.01	ug/l		DWS	no
GW8	236-Trichlorobenzoic Acid (TBA)	Annual	<0.005	ug/l		DWS	no
GW8	2,4,5-T	Annual	<0.005	ug/l		DWS	no
GW8	2,4 D	Annual	<0.005	ug/l		DWS	no
GW8	24-DB	Annual	<0.005	ug/l		DWS	no
GW8	Bentazone	Annual	<0.005	ug/l		DWS	no
GW8	Bromacil	Annual	<0.005	ug/l		DWS	no
GW8	Bromoxynil	Annual	<0.005	mg/l		DWS	no
GW8	Clopyralid	Annual	<0.005	ug/l		DWS	no
GW8	Dicamba	Annual	<0.005	ug/l		DWS	no
GW8	Dichlorprop (24DP)	Annual	<0.005	mg/l		DWS	no
GW8	Flurozypyr	Annual	<0.005	mg/l		DWS	no
GW8	loxynil	Annual	<0.005	mg/l		DWS	no
GW8	MCPA	Annual	<0.005	mg/l		DWS	no
GW8	MCPB	Annual	<0.005	ug/l		DWS	no
GW8	Mecoprop (MCPP)	Annual	0.042	ug/l		DWS	no
GW8	Pentachlorophenol (PCP)	Annual	<0.005	ug/l		DWS	no
GW8	Picloram	Annual	<0.005	ug/l		DWS	no
GW8	Quinmerac	Annual	<0.005	ug/l		DWS	no
GW8	Trichlopyr	Annual	<0.005	ug/l		DWS	no
GW8	Atrazine-LC	Annual	<0.005	ug/l		DWS	no
GW8	Simazine-LC	Annual	0.006	ug/l	ug/l	DWS	no
GW8	Prometryn-LC	Annual	<0.005	ug/l		DWS	no
GW8	Propazine-LC	Annual	<0.005	ug/l		DWS	no
GW8	Terbutryn-LC	Annual	<0.005	ug/l		DWS	no
GW8	Trietazine-LC	Annual	<0.005	ug/l		DWS	no
GW8	Azinphos Ethyl-LC	Annual	<0.005	ug/l		DWS	no
GW8	Azinphos-methyl-LC	Annual	<0.005	ug/l		DWS	no
GW8	Chlorfenvinphos-LC	Annual	<0.005	ug/l		DWS	no
GW8	Demeton-S-Methyl-LC	Annual	<0.005	ug/l		DWS	no
GW8	Diazinon-LC	Annual	<0.005	ug/l		DWS	no
GW8	Dichlorvos-LC	Annual	<0.005	ug/l		DWS	no
GW8	Dimethoate-LC	Annual	<0.005	ug/l		DWS	no
GW8	Malathion-LC	Annual	<0.005	ug/l		DWS	no
GW8	Mevinphos-LC	Annual	<0.005	ug/l		DWS	no
GW8	Phosalone LC	Annual	<0.005	ug/l		DWS	no
GW8	Pirimiphos-methyl-LC	Annual	<0.005	ug/l		DWS	no
GW8	Triazophos-LC	Annual	<0.005	ug/l		DWS	no
GW8	PAHS	Annual	<0.01	ug/l		DWS	no



## Environmental Liabilities template

Lic No:

W0023-1

Year

2015

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

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

<b>Environmental Management Programme/Continuous Improvement Programme template</b>		Lic No:	W0023-1	Year	2015
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Highlighted cells contain dropdown menu click to view		Additional Information
1	Do you maintain an Environmental Management 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, Engineering details, Control of nuisance and Environmental management system requirements.
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
Additional improvements	Investigate feasibility of renovating existing office portkabin.	10		Individual	Installation of infrastructure
Additional improvements	increase recycling of materials during customers Visits through education and school visits 2013-2015	90		Individual	Installation of infrastructure
Energy Efficiency/Utility conservation	to reduce energy usage on site	40	energy	Individual	Installation of infrastructure
Additional improvements	refresh line marking on site	90		Individual	Installation of infrastructure

### Noise monitoring summary report

Lic No: W0023-1

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

No

4 When was the noise reduction plan last updated?

not applicable

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 <sub>eq</sub>	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	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)?
27/8/2015	30 min	N1		44.7	32.9	48.1	65.7	No	SELECT	DOMINANT NOISE WAS TRAFFIC ON ROAD AND NOISE FROM NEAR BY SCAFFOLDING COMPNAY LOADING AND UNLOADING.	Yes
				45.3	31.8	49.4	61.1	No			Yes
				45	31.6	47.4	66.7	No			Yes
27/8/2015	30 min	N2		47.5	34.7	49.8	66.6	No		Dominant noise was raod traffic	Yes
				52.6	34.8	56.6	72.4	No			Yes
				50.1	35.4	52.3	69	No			Yes
27/8/2015	30 min	N3		60.1	36.9	57.7	82	No		Dominant noise was road traffic. Very heavy volumes at the time, may be attributed to school traffic.	Yes
				61.3	39.8	61.3	81.2	No			Yes
				61.7	40.9	61.3	83.3	No			Yes
27/8/2015	30 min	n7		64.1	43.6	68.6	79.2	No		Dominant and heavy traffic from wet R610 passing 5-6 m from N7 locations turning onto Strawhill road to landfill site.	Yes
				60.8	47.4	65.1	75.7	No			Yes
				60.6	43.5	64.5	84.3	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

It is often beneficial to analyse La90 results particularly where plant noise is steady and audible during operations on site. The IA90 results often refer to as background noise, it usually gives a good indication of the constant noise level coming from a site. Looking at the results we can see the LA 90 results are

Any additional comments? (less than 200 words)

## Resource Usage/Energy efficiency summary

Lic No:

W0023-1

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

2007	
no	
SELECT	N/A

Energy Use	Previous year	Current year (2015)	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	0.03927	0.032327	-17.70%	
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	0.03927	0.032327	-17.70%	
Fossil Fuels Consumption:	N/A	N/A	N/A	N/A
Heavy Fuel Oil (m3)	N/A	N/A	N/A	N/A
Light Fuel Oil (m3)	N/A	N/A	N/A	N/A
Natural gas (CMN)	N/A	N/A	N/A	N/A
Coal/Solid fuel (metric tonnes)	N/A	N/A	N/A	N/A
Peat (metric tonnes)	N/A	N/A	N/A	N/A
Renewable Biomass	N/A	N/A	N/A	N/A
Renewable energy generated on site	N/A	N/A	N/A	N/A

\* 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 Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Water Emissions		Water Consumption	
					Volume Discharged back to environment(m <sup>3</sup> /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:	
Groundwater								
Surface water								
Public supply	Not metered			0	0	49		
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

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	0				
Non-Hazardous (Tonnes)	0				

**Resource Usage/Energy efficiency summary** Lic No: W0023-1 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	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					



WASTE SUMMARY											
Lic No: W0023-1 Year 2015											
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES											
Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	PRTR facility logon		Location of Treatment	dropdown list click to see options	Name and License / Permit No. and Address of Final Recovery / Disposal Site (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 06	Yes	7.24	synthetic engine, gear and lubricating oils	R9	M	Weighed	Offsite in Ireland	ENVA ,IPC 472 WMC 16/01	ENVA ,W0184-01,ENVA ,Clonminam Industrial Estate ,Portlaoise,,Ireland and Sarsfield Court ,Glanmire ,Co. Cork	ENVA ,Clonminam Industrial Estate ,Portlaoise,,Ireland
Within the Country	15 01 01	No	107.64	Cardboard	R5	M	Weighed	Offsite in Ireland	Greenstar Limited,WL 136-2; CKWMC 20/04	,Cork,Ireland Corbally North ,Glanmire	
Within the Country	15 01 02	No	34.78	Plastic bottles	R13	M	Weighed	Offsite in Ireland	Green Dragon Recycling,CK3 46/03 CKMWC 183/03	,Cork,,Ireland Corbally North ,Glanmire	
Within the Country	15 01 04	No	4.06	Food tins	R4	M	Weighed	Offsite in Ireland	Green Dragon Recycling,CK3 46/03 CKMWC 183/03	,Cork,,Ireland Corbally North ,Glanmire	
Within the Country	15 01 04	No	1.58	Beverage Cans	R13	M	Weighed	Offsite in Ireland	Green Dragon Recycling,CK3 46/03 CKMWC 183/03	,Cork,,Ireland	
Within the Country	15 01 07	No	64.8	glass packaging	R5	M	Weighed	Offsite in Ireland	Mr. Binman,W0061-01	Kilmallock ,Co. ,Limerick,,Ireland	
Within the Country	16 06 01	Yes	0.34	lead batteries	R6	M	Weighed	Offsite in Ireland	KMK Metals ,W0133-03	Cappincur Industrial Estate ,Daingean Road ,Tullamore ,Co. Offaly,Ireland	KMK Metals ,W0133-03,Cappincur Industrial Estate ,Daingean Road ,Tullamore ,Co. Offaly,Ireland
Within the Country	16 06 04	No	1.56	alkaline batteries (except 16 06 03)	R4	M	Weighed	Offsite in Ireland	KMK Metals ,W0133-03	Cappincur Industrial Estate ,Daingean Road ,Tullamore ,Co. Offaly,Ireland	
Within the Country	17 01 07	No	1505.66	01 06	R5	M	Weighed	Offsite in Ireland	Ballineen Skip Hire,CK-0054-01	Ballineen Skip Hire,Ballineen ,Co. Cork,Cork,Ireland	
Within the Country	17 08 02	No	97.14	gypsum-based construction materials other than those mentioned in 17 08 01	R5	M	Weighed	Offsite in Ireland	Gypsum Recycling Ireland Ltd ,W0140-3	Gypsum Recycling Ireland Ltd ,First Floor ,Millennium House ,Main Street Tullamore Co. Offaly ,Ireland	
Within the Country	19 07 03	No	285.1	landfill leachate other than those mentioned	R12	M	Weighed	Offsite in Ireland	Carrigtwohill wastewater treatment plant,D0044-01	Carrigtwohill ,Co Cork,,Ireland	Aughacureen,Killarney ,Co Kerry,Kerry,Ireland
Within the Country	20 01 01	No	108.74	Paper	R13	M	Weighed	Offsite in Ireland	Killarney Waste Disposal - KWD,W0217-01		

WASTE SUMMARY		Lic No:	W0023-1	Year	2015				
Within the Country	20 01 02	No	65.78 Flat glass	R5	M	Weighed	Offsite in Ireland	MSM Recycling ,W0079-01	41 Cookstown Industrial Estate ,Tallaght ,Co. Dublin,,Ireland
Within the Country	20 01 11	No	7.48 textiles	R3	M	Weighed	Offsite in Ireland	Textile Recycling Ltd.,Charity no number	Glen Abbey Complex ,Belgard Road ,Tallaght ,Dublin 24.,Ireland
Within the Country	20 01 21	Yes	0.92 fluorescent tubes and other mercury-containing waste	R4	M	Weighed	Offsite in Ireland	KMK Metals ,W0133-03	KMK Metals ,W0133-03,Cappincur Industrial Estate ,Daingean Road ,Tullamore ,Co. Offaly,Ireland unit1,GB Business Park, Little Island,Co. Cork,Ireland
Within the Country	20 01 25	No	2.64 edible oil and fat	R9	M	Weighed	Offsite in Ireland	Frylite,WFP-CK-11-0092	
Within the Country	20 01 28	No	17.1 01 27 paint, inks, adhesives and resins other than those mentioned in 20	R2	M	Weighed	Offsite in Ireland	ENVA ,IPC 472 WMC 16/01	ENVA ,Clonminam Industrial Estate ,Portlaoise,,Ireland
Within the Country	20 01 36	No	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 ,W0133-03	Cappincur Industrial Estate ,Daingean Road ,Tullamore ,Co. Offaly,Ireland
Within the Country	20 01 38	No	965.56 wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	CTO Environmental Solutions,CK(S)283/06	Kinsale Road landfill ,blackash ,Cork City,Cork ,Ireland
Within the Country	20 01 40	No	237.06 metals	R4	M	Weighed	Offsite in Ireland	Pouladuff Dismantlers,WMP 08/01	Forge Hill ,Cork,,,,Ireland Sarsfield Court ,Glanmire ,Co. Cork ,Ireland Sarsfield Court ,Glanmire ,Co. Cork ,Ireland
Within the Country	20 02 01	No	157.0 Green Waste	R3	M	Weighed	Offsite in Ireland	Greenstar Limited,WL 136-2; CKWMC 20/04	Cork ,Ireland Sarsfield Court ,Glanmire ,Co. Cork ,Ireland
Within the Country	20 03 01	No	270.52 mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Greenstar Limited,WL 136-2; CKWMC 20/04	Cork ,Ireland Sarsfield Court ,Glanmire ,Co. Cork ,Ireland
Within the Country	20 03 07	No	2071.68 bulky waste	R3	M	Weighed	Offsite in Ireland	Greenstar Limited,WL 136-2; CKWMC 20/04	Cork ,Ireland ,,,Limerick,,Ireland
Within the Country	20 01 11	No	7.92 textiles	R3	M	Weighed	Offsite in Ireland	Enable Ireland,.	
Within the Country	20 02 01	No	857.86 Green Waste	R3	M	Weighed	Offsite in Ireland	CTO Environmental Solutions,CK(S)283/06	Kinsale Road landfill ,blackash ,Cork City,Cork ,Ireland Sarsfield Court ,Glanmire ,Co. Cork ,Ireland
Within the Country	20 03 03	No	176.41 street-cleaning residues	D1	M	Weighed	Offsite in Ireland	Greenstar Limited,WL 136-2; CKWMC 20/04	Cork ,Ireland

WASTE SUMMARY										Lic No:	W0023-1	Year	2015
Within the Country	20 02 01	No	857.86 Green Waste	R3	M	Weighed	Offsite in Ireland	CTO Environmental Solutions,CK(S)283/06	Kinsale Road landfill ,blackash ,Cork City,Cork ,Ireland Sarsfield Court ,Glanmire ,Co. Cork ,Cork,Ireland				
Within the Country	20 03 03	No	176.41 street-cleaning residues	D1	M	Weighed	Offsite in Ireland	Greenstar Limited,WL 136-2; CKWMC 20/04					

**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

Additional Information	
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	
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

**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)	EWC code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description which applies to 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 -
	<a href="#">European Waste Catalogue EWC codes</a>										

**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	
SELECT	
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	
SELECT	
SELECT	

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?

**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

**Table 3 General information-Landfill only**





<b>WASTE SUMMARY</b>	Lic No:	W0023-1	Year	2015
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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

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

**Table 5 Capping-Landfill only**

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

\*please note this includes daily cover area

**Table 6 Leachate-Landfill only**

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

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

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
			SELECT	