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cells that are highlighted blue contain a dropdown menu click to select one option from the list

[guidance document link](#)

cells that contain underlined text click to access relevant guidance documents for this section

Table heading *

table headings followed by a symbol have an associated footnote or instructions

Cells with red indicator in top right corner

cells that have a red indicator in the top right corner contain a comment box with further instructions or clarification

Please note an interpretation of results is still required. This should be entered in the additional information/comments boxes within the templates. Please size these boxes appropriately to fit your interpretation, if additional space is required please include an appendix to the AER template and merge it as part of the AER PDF document. The excel template should have all cells sized appropriately so that all text is readable before it is converted to PDF document.

Facility Information Summary	
AER Reporting Year	2014
Licence Register Number	W0089-02
Name of site	Derryconnell Landfill & Civic Amenity Site
Site Location	Derryconnell, Schull, Co. Cork
NACE Code	3821
Class/Classes of Activity	5(c), 5(d), & 50.1
National Grid Reference (6E, 6 N)	(49E, 53N)
<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 listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.</p>	<p>Description of Activities on Site during 2014: The Facility at Derryconnell consists of a closed Landfill and a Civic Amenity Site. Deposition of waste at the landfill ceased in August 2010 and the final capping works were completed by Q2 2011. The main activities at the site during 2014 were the extraction of gas and leachate from the closed landfill (extracted gas is flared on-site and leachate is pumped to an on-site lagoon prior to being transported for treatment to Bandon WWTP) and the acceptance and storage of waste at the Civic Amenity Site for off-site treatment/disposal/recycling.</p> <p>Exceedances of Licence Limits during 2014: Carbon Dioxide emissions exceeded the licence limit twice at perimeter monitoring location L6 and 3 times at perimeter monitoring location L7 during 2014.</p> <p>Overview of Licence Compliance during 2014: 2 no. compliance investigation were ongoing during 2014 - one in relation to groundwater contamination and a second in relation to contaminated discharge to surface water. Both investigations were completed to the satisfaction of the EPA and are subject to ongoing monitoring and reporting in relation to both incidents.</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.

<u>Mairead Hales</u>	<u>12/03/2015</u>
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

AIR-summary template Lic No: W0089-02 Year 2014

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	Nitrogen Oxides at Landfill Gas Flare

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
A1-1 (Landfill Gas Flare)	Nitrogen oxides (NOx/NO2)	Biannually	150 mg/m ³	No 30min mean can exceed the ELV	80.75	mg/Nm3	yes	EN 14792:2005	19.19	
A1-1 (Landfill Gas Flare)	Nitrogen oxides (NOx/NO2)	Biannually	150 mg/m ³	No 30min mean can exceed the ELV	96.38	mg/Nm3	yes	EN 14792:2005		
A1-1 (Landfill Gas Flare)	Volumetric flow	Continuous	N/A	N/A	80.00	Nm3/hour	N/A	OTH		Average flow rate during flare runtime
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

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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	Carbon Monoxide at Landfill Gas Flare
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	No	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes	Service & Maintenance contract in place
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 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
A1-1 (Landfill Gas Flare)	Carbon monoxide (CO)	N/A	10 Mins	N/A	mg/Nm3	0.68	1.04	0	N/A	
A1-1 (Landfill Gas Flare)	Volumetric flow	N/A	10 Mins	N/A	Nm3/hour	80.00	95.95	0	N/A	
	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

Solvent use and management on site

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

No

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

[Solvent regulations](#) Please refer to linked solvent regulations to complete table 5 and 6

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

Table A5: Solvent Mass Balance summary

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

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

Lic No:

W0089-02

Year

2014

Additional information

1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you **only** need to complete table W1 and or W2 for storm water analysis and visual inspections

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	
Yes	SW 7 - Inspected Weekly SW1-SW9 - Inspected Monthly

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
SW1	downstream		Total Ammonia	28/03/2014	1	All results < 1.2 x ELV	0.34	mg/l NH3	yes	
SW1	downstream	Chlorides (as Cl)		28/03/2014	N/A	N/A	56.01	mg/l	yes	
SW1	downstream		Conductivity	28/03/2014	750	All results < 1.2 x ELV	186	µS/cm @20oC	yes	
SW1	downstream		Total Ammonia	15/05/2014	1	All results < 1.2 x ELV	0.54	mg/l NH3	yes	
SW1	downstream	Chlorides (as Cl)		15/05/2014	N/A	N/A	39.35	mg/l	yes	
SW1	downstream		Conductivity	15/05/2014	750	All results < 1.2 x ELV	197	µS/cm @20oC	yes	
SW1	downstream		Dissolved Oxygen	15/05/2014	N/A	N/A	8.5	mg/l O2	yes	
SW1	downstream		Boron	15/05/2014	N/A	N/A	0.15	mg/l	yes	
SW1	downstream	Cadmium and compounds (as Cd)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW1	downstream		Calcium	15/05/2014	N/A	N/A	17.4	mg/l	yes	
SW1	downstream	Chromium and compounds (as Cr)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW1	downstream	Copper and compounds (as Cu)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW1	downstream		Iron	15/05/2014	N/A	N/A	561	µg/l	yes	
SW1	downstream	Lead and compounds (as Pb)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW1	downstream		Magnesium	15/05/2014	N/A	N/A	4.34	mg/l	yes	
SW1	downstream		Manganese (as Mn)	15/05/2014	N/A	N/A	172	µg/l	yes	
SW1	downstream	Nickel and compounds (as Ni)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW1	downstream		Potassium	15/05/2014	N/A	N/A	1.31	mg/l	yes	
SW1	downstream	Zinc and compounds (as Zn)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW1	downstream	Mercury and compounds (as Hg)		15/05/2014	N/A	N/A	<1.000	µg/l	yes	
SW1	downstream		Sulphate	15/05/2014	N/A	N/A	<2.5	mg/l SO4	yes	
SW1	downstream	Total phosphorus		15/05/2014	N/A	N/A	0.03	mg/l P	yes	
SW1	downstream		Total Ammonia	20/08/2014	1	All results < 1.2 x ELV	0.43	mg/l NH3	yes	
SW1	downstream	Chlorides (as Cl)		20/08/2014	N/A	N/A	46.13	mg/l	yes	
SW1	downstream		Conductivity	20/08/2014	750	All results < 1.2 x ELV	301	µS/cm @20oC	yes	
SW1	downstream		Total Ammonia	16/10/2014	1	All results < 1.2 x ELV	1.7	mg/l NH3	yes	
SW1	downstream	Chlorides (as Cl)		16/10/2014	N/A	N/A	45.38	mg/l	yes	
SW2	downstream		Total Ammonia	28/03/2014	1	All results < 1.2 x ELV	0.02	mg/l NH3	yes	
SW2	downstream	Chlorides (as Cl)		28/03/2014	N/A	N/A	47.43	mg/l	yes	
SW2	downstream		Conductivity	28/03/2014	750	All results < 1.2 x ELV	140	µS/cm @20oC	yes	
SW2	downstream		Total Ammonia	15/05/2014	1	All results < 1.2 x ELV	0.01	mg/l NH3	yes	
SW2	downstream	Chlorides (as Cl)		15/05/2014	N/A	N/A	30.24	mg/l	yes	
SW2	downstream		Conductivity	15/05/2014	750	All results < 1.2 x ELV	125	µS/cm @20oC	yes	
SW2	downstream		Dissolved Oxygen	15/05/2014	N/A	N/A	7.8	mg/l O2	yes	
SW2	downstream		Boron	15/05/2014	N/A	N/A	0.05	mg/l	yes	
SW2	downstream	Cadmium and compounds (as Cd)		15/05/2014	N/A	N/A	<20	µg/l	yes	
SW2	downstream		Calcium	15/05/2014	N/A	N/A	5.97	mg/l	yes	
SW2	downstream	Chromium and compounds (as Cr)		15/05/2014	N/A	N/A	<20	µg/l	yes	
SW2	downstream	Copper and compounds (as Cu)		15/05/2014	N/A	N/A	<20	µg/l	yes	
SW2	downstream		Iron	15/05/2014	N/A	N/A	1074	µg/l	yes	
SW2	downstream	Lead and compounds (as Pb)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW2	downstream		Magnesium	15/05/2014	N/A	N/A	2.75	mg/l	yes	
SW2	downstream		Manganese (as Mn)	15/05/2014	N/A	N/A	441	µg/l	yes	
SW2	downstream	Nickel and compounds (as Ni)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW2	downstream		Potassium	15/05/2014	N/A	N/A	1.58	mg/l	yes	
SW2	downstream	Zinc and compounds (as Zn)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW2	downstream	Mercury and compounds (as Hg)		15/05/2014	N/A	N/A	<1.000	µg/l	yes	
SW2	downstream		Sulphate	15/05/2014	N/A	N/A	<2.5	mg/l SO4	yes	
SW2	downstream	Total phosphorus		15/05/2014	N/A	N/A	0.21	mg/l P	yes	
SW2	downstream		Total Ammonia	16/10/2014	1	All results < 1.2 x ELV	0.04	mg/l NH3	yes	
SW2	downstream	Chlorides (as Cl)		16/10/2014	N/A	N/A	32.77	mg/l	yes	
SW3	downstream		Total Ammonia	28/03/2014	1	All results < 1.2 x ELV	0.38	mg/l NH3	yes	
SW3	downstream	Chlorides (as Cl)		28/03/2014	N/A	N/A	63.7	mg/l	yes	
SW3	downstream		Conductivity	28/03/2014	750	All results < 1.2 x ELV	187	µS/cm @20oC	yes	
SW3	downstream		Total Ammonia	15/05/2014	1	All results < 1.2 x ELV	0.04	mg/l NH3	yes	
SW3	downstream	Chlorides (as Cl)		15/05/2014	N/A	N/A	47.47	mg/l	yes	
SW3	downstream		Conductivity	15/05/2014	750	All results < 1.2 x ELV	200	µS/cm @20oC	yes	
SW3	downstream		Dissolved Oxygen	15/05/2014	N/A	N/A	9.6	mg/l O2	yes	
SW3	downstream		Boron	15/05/2014	N/A	N/A	0.03	mg/l	yes	
SW3	downstream	Cadmium and compounds (as Cd)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW3	downstream		Calcium	15/05/2014	N/A	N/A	13.4	mg/l	yes	
SW3	downstream	Chromium and compounds (as Cr)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW3	downstream	Copper and compounds (as Cu)		15/05/2014	N/A	N/A	<20.00	µg/l	yes	
SW3	downstream		Iron	15/05/2014	N/A	N/A	2404	µg/l	yes	

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SW3	downstream	Lead and compounds (as Pb)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW3	downstream		Magnesium	15/05/2014	N/A	N/A	4.37	mg/l	yes	
SW3	downstream		Manganese (as Mn)	15/05/2014	N/A	N/A	716	µg/l	yes	
SW3	downstream	Nickel and compounds (as Ni)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW3	downstream		Potassium	15/05/2014	N/A	N/A	1.37	mg/l	yes	
SW3	downstream	Zinc and compounds (as Zn)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW3	downstream	Mercury and compounds (as Hg)		15/05/2014	N/A	N/A	<1.000	µg/l	yes	
SW3	downstream		Sulphate	15/05/2014	N/A	N/A	4.69	mg/l SO4	yes	
SW3	downstream	Total phosphorus		15/05/2014	N/A	N/A	0.02	mg/l P	yes	
SW3	downstream		Total Ammonia	20/08/2014	1	All results < 1.2 x ELV	0.65	mg/l NH3	yes	
SW3	downstream	Chlorides (as Cl)		20/08/2014	N/A	N/A	45.22	mg/l	yes	
SW3	downstream		Conductivity	20/08/2014	750	All results < 1.2 x ELV	232	µS/cm @20oC	yes	
SW3	downstream		Total Ammonia	16/10/2014	1	All results < 1.2 x ELV	0.23	mg/l NH3	yes	
SW3	downstream	Chlorides (as Cl)		16/10/2014	N/A	N/A	43.55	mg/l	yes	
SW3	downstream		Conductivity	16/10/2014	750	All results < 1.2 x ELV	208.00	µS/cm @20oC	yes	
SW4	downstream		Total Ammonia	28/03/2014	1	All results < 1.2 x ELV	0.17	mg/l NH3	yes	
SW4	downstream	Chlorides (as Cl)		28/03/2014	N/A	N/A	58.01	mg/l	yes	
SW4	downstream		Conductivity	28/03/2014	750	All results < 1.2 x ELV	177	µS/cm @20oC	yes	
SW4	downstream		Total Ammonia	15/05/2014	1	All results < 1.2 x ELV	0.44	mg/l NH3	yes	
SW4	downstream	Chlorides (as Cl)		15/05/2014	N/A	N/A	39.18	mg/l	yes	
SW4	downstream		Conductivity	15/05/2014	750	All results < 1.2 x ELV	167	µS/cm @20oC	yes	
SW4	downstream		Dissolved Oxygen	15/05/2014	N/A	N/A	6.6	mg/l O2	yes	
SW4	downstream		Boron	15/05/2014	N/A	N/A	0.02	mg/l	yes	
SW4	downstream	Cadmium and compounds (as Cd)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW4	downstream		Calcium	15/05/2014	N/A	N/A	11.8	mg/l	yes	
SW4	downstream	Chromium and compounds (as Cr)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW4	downstream	Copper and compounds (as Cu)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW4	downstream		Iron	15/05/2014	N/A	N/A	532	µg/l	yes	
SW4	downstream	Lead and compounds (as Pb)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW4	downstream		Magnesium	15/05/2014	N/A	N/A	3.89	mg/l	yes	
SW4	downstream		Manganese (as Mn)	15/05/2014	N/A	N/A	88	µg/l	yes	
SW4	downstream	Nickel and compounds (as Ni)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW4	downstream		Potassium	15/05/2014	N/A	N/A	<0.5	mg/l	yes	
SW4	downstream	Zinc and compounds (as Zn)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW4	downstream	Mercury and compounds (as Hg)		15/05/2014	N/A	N/A	<1.000	µg/l	yes	
SW4	downstream		Sulphate	15/05/2014	N/A	N/A	<2.500	mg/l SO4	yes	
SW4	downstream	Total phosphorus		15/05/2014	N/A	N/A	<0.010	mg/l P	yes	
SW4	downstream		Total Ammonia	20/08/2014	1	All results < 1.2 x ELV	1.29	mg/l NH3	yes	
SW4	downstream	Chlorides (as Cl)		20/08/2014	N/A	N/A	46.57	mg/l	yes	
SW4	downstream		Conductivity	20/08/2014	750	All results < 1.2 x ELV	268	µS/cm @20oC	yes	
SW4	downstream		Total Ammonia	16/10/2014	1	All results < 1.2 x ELV	0.18	mg/l NH3	yes	
SW4	downstream	Chlorides (as Cl)		16/10/2014	N/A	N/A	45.85	mg/l	yes	
SW4	downstream		Conductivity	16/10/2014	750	All results < 1.2 x ELV	173.00	µS/cm @20oC	yes	
SW5	downstream		Total Ammonia	28/03/2014	1	All results < 1.2 x ELV	0.05	mg/l NH3	yes	
SW5	downstream	Chlorides (as Cl)		28/03/2014	N/A	N/A	65.59	mg/l	yes	
SW5	downstream		Conductivity	28/03/2014	750	All results < 1.2 x ELV	201	µS/cm @20oC	yes	
SW5	downstream		Total Ammonia	15/05/2014	1	All results < 1.2 x ELV	0.1	mg/l NH3	yes	
SW5	downstream	Chlorides (as Cl)		15/05/2014	N/A	N/A	47.85	mg/l	yes	
SW5	downstream		Conductivity	15/05/2014	750	All results < 1.2 x ELV	201	µS/cm @20oC	yes	
SW5	downstream		Dissolved Oxygen	15/05/2014	N/A	N/A	10.1	mg/l O2	yes	
SW5	downstream		Boron	15/05/2014	N/A	N/A	0.02	mg/l	yes	
SW5	downstream	Cadmium and compounds (as Cd)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW5	downstream		Calcium	15/05/2014	N/A	N/A	12.4	mg/l	yes	
SW5	downstream	Chromium and compounds (as Cr)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW5	downstream	Copper and compounds (as Cu)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW5	downstream		Iron	15/05/2014	N/A	N/A	667	µg/l	yes	
SW5	downstream	Lead and compounds (as Pb)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW5	downstream		Magnesium	15/05/2014	N/A	N/A	4.69	mg/l	yes	
SW5	downstream		Manganese (as Mn)	15/05/2014	N/A	N/A	193	µg/l	yes	
SW5	downstream	Nickel and compounds (as Ni)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW5	downstream		Potassium	15/05/2014	N/A	N/A	1.4	mg/l	yes	
SW5	downstream	Zinc and compounds (as Zn)		15/05/2014	N/A	N/A	<20.000	µg/l	yes	
SW5	downstream	Mercury and compounds (as Hg)		15/05/2014	N/A	N/A	<1.000	µg/l	yes	
SW5	downstream		Sulphate	15/05/2014	N/A	N/A	5.6	mg/l SO4	yes	
SW5	downstream	Total phosphorus		15/05/2014	N/A	N/A	<0.010	mg/l P	yes	
SW5	downstream		Total Ammonia	20/08/2014	1	All results < 1.2 x ELV	0.06	mg/l NH3	yes	
SW5	downstream	Chlorides (as Cl)		20/08/2014	N/A	N/A	43.92	mg/l	yes	
SW5	downstream		Conductivity	20/08/2014	750	All results < 1.2 x ELV	200	µS/cm @20oC	yes	
SW5	downstream		Total Ammonia	16/10/2014	1	All results < 1.2 x ELV	0.06	mg/l NH3	yes	
SW5	downstream	Chlorides (as Cl)		16/10/2014	N/A	N/A	43.83	mg/l	yes	
SW6	downstream		Total Ammonia	28/03/2014	1	All results < 1.2 x ELV	10.35	mg/l NH3	No	Contamination from landfill leachate - remedial works undertaken to eliminate
SW6	downstream	Chlorides (as Cl)		28/03/2014	N/A	N/A	72	mg/l	yes	
SW6	downstream		Conductivity	28/03/2014	750	All results < 1.2 x ELV	416	µS/cm @20oC	yes	
SW6	downstream		Total Ammonia	15/05/2014	1	All results < 1.2 x ELV	5.16	mg/l NH3	No	Contamination from landfill leachate - remedial works undertaken to eliminate
SW6	downstream	Chlorides (as Cl)		15/05/2014	N/A	N/A	6.98	mg/l	yes	
SW6	downstream		Conductivity	15/05/2014	750	All results < 1.2 x ELV	473	µS/cm @20oC	yes	
SW6	downstream		Dissolved Oxygen	15/05/2014	N/A	N/A	2.11	mg/l O2	yes	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)				Lic No:	W0089-02	Year	2014		
SW6	downstream		Boron	15/05/2014	N/A	N/A	0.09	mg/l	yes
SW6	downstream	Cadmium and compounds (as Cd)		15/05/2014	N/A	N/A	<20.000	µg/l	yes
SW6	downstream		Calcium	15/05/2014	N/A	N/A	174.9	mg/l	yes
SW6	downstream	Chromium and compounds (as Cr)		15/05/2014	N/A	N/A	<20.000	µg/l	yes
SW6	downstream	Copper and compounds (as Cu)		15/05/2014	N/A	N/A	114	µg/l	yes
SW6	downstream		Iron	15/05/2014	N/A	N/A	459	µg/l	yes
SW6	downstream	Lead and compounds (as Pb)		15/05/2014	N/A	N/A	124	µg/l	yes
SW6	downstream		Magnesium	15/05/2014	N/A	N/A	21	mg/l	yes
SW6	downstream		Manganese (as Mn)	15/05/2014	N/A	N/A	34.3	µg/l	yes
SW6	downstream	Nickel and compounds (as Ni)		15/05/2014	N/A	N/A	114	µg/l	yes
SW6	downstream		Potassium	15/05/2014	N/A	N/A	38.4	mg/l	yes
SW6	downstream	Zinc and compounds (as Zn)		15/05/2014	N/A	N/A	1661	µg/l	yes
SW6	downstream	Mercury and compounds (as Hg)		15/05/2014	N/A	N/A	<1.000	µg/l	yes
SW6	downstream		Sulphate	15/05/2014	N/A	N/A	14.32	mg/l SO4	yes
SW6	downstream	Total phosphorus		15/05/2014	N/A	N/A	4.45	mg/l P	yes
SW6	downstream		Total Ammonia	16/10/2014	1	All results < 1.2 x ELV	1.38	mg/l NH3	yes
SW6	downstream	Chlorides (as Cl)		16/10/2014	N/A	N/A	44.16	mg/l	yes
SW7	downstream		pH	21/01/2014	6-9	All values < ELV	6.80	pH units	yes
SW7	downstream		Total Ammonia	21/01/2014	1	All results < 1.2 x ELV	<0.2	mg/L	yes
SW7	downstream		Conductivity	21/01/2014	750	All results < 1.2 x ELV	217.00	µS/cm @20oC	yes
SW7	downstream		Suspended Solids	21/01/2014	N/A	N/A	<10	mg/L	yes
SW7	downstream		COD	21/01/2014	N/A	N/A	14.00	mg/L	yes
SW7	downstream	Chlorides (as Cl)		21/01/2014	N/A	N/A	32.00	mg/L	yes
SW7	downstream		pH	19/02/2014	6-9	All values < ELV	6.50	pH units	yes
SW7	downstream		Total Ammonia	19/02/2014	1	All results < 1.2 x ELV	0.22	mg/L	yes
SW7	downstream		Conductivity	19/02/2014	750	All results < 1.2 x ELV	363.00	µS/cm @20oC	yes
SW7	downstream		Suspended Solids	19/02/2014	N/A	N/A	<10	mg/L	yes
SW7	downstream		COD	19/02/2014	N/A	N/A	10.00	mg/L	yes
SW7	downstream	Chlorides (as Cl)		19/02/2014	N/A	N/A	62.00	mg/L	yes
SW7	downstream		pH	28/03/2014	6-9	All values < ELV	6.80	pH units	yes
SW7	downstream		Total Ammonia	28/03/2014	1	All results < 1.2 x ELV	0.12	mg/L	yes
SW7	downstream		Conductivity	28/03/2014	750	All results < 1.2 x ELV	205.00	µS/cm @20oC	yes
SW7	downstream		Suspended Solids	28/03/2014	N/A	N/A	<1	mg/L	yes
SW7	downstream		COD	28/03/2014	N/A	N/A	4.00	mg/L	yes
SW7	downstream	Chlorides (as Cl)		28/03/2014	N/A	N/A	55.80	mg/L	yes
SW7	downstream		pH	25/04/2014	6-9	All values < ELV	6.70	pH units	yes
SW7	downstream		Total Ammonia	25/04/2014	1	All results < 1.2 x ELV	0.34	mg/L	yes
SW7	downstream		Conductivity	25/04/2014	750	All results < 1.2 x ELV	200.00	µS/cm @20oC	yes
SW7	downstream		Suspended Solids	25/04/2014	N/A	N/A	1.00	mg/L	yes
SW7	downstream		COD	25/04/2014	N/A	N/A	5.00	mg/L	yes
SW7	downstream	Chlorides (as Cl)		25/04/2014	N/A	N/A	47.84	mg/L	yes
SW7	downstream		pH	15/05/2014	6-9	All values < ELV	6.70	pH units	yes
SW7	downstream		Total Ammonia	15/05/2014	1	All results < 1.2 x ELV	0.06	mg/L	yes
SW7	downstream		Conductivity	15/05/2014	750	All results < 1.2 x ELV	177.00	µS/cm @20oC	yes
SW7	downstream		Suspended Solids	15/05/2014	N/A	N/A	1.00	mg/L	yes
SW7	downstream		COD	15/05/2014	N/A	N/A	27.00	mg/L	yes
SW7	downstream	Chlorides (as Cl)		15/05/2014	N/A	N/A	40.63	mg/L	yes
SW7	downstream		pH	11/06/2014	6-9	All values < ELV	6.80	pH units	yes
SW7	downstream		Total Ammonia	11/06/2014	1	All results < 1.2 x ELV	0.10	mg/L	yes
SW7	downstream		Conductivity	11/06/2014	750	All results < 1.2 x ELV	154.00	µS/cm @20oC	yes
SW7	downstream		Suspended Solids	11/06/2014	N/A	N/A	7.00	mg/L	yes
SW7	downstream		COD	11/06/2014	N/A	N/A	14.00	mg/L	yes
SW7	downstream	Chlorides (as Cl)		11/06/2014	N/A	N/A	38.55	mg/L	yes
SW7	downstream		Sodium	11/06/2014	N/A	N/A	21.70	mg/l	yes
SW7	downstream		Boron	11/06/2014	N/A	N/A	0.07	mg/l	yes
SW7	downstream	Cadmium and compounds (as Cd)		11/06/2014	N/A	N/A	<20	µg/l	yes
SW7	downstream		Calcium	11/06/2014	N/A	N/A	14.60	mg/l	yes
SW7	downstream	Chromium and compounds (as Cr)		11/06/2014	N/A	N/A	<20	µg/l	yes
SW7	downstream	Copper and compounds (as Cu)		11/06/2014	N/A	N/A	34.00	µg/l	yes
SW7	downstream		Iron	11/06/2014	N/A	N/A	245.00	µg/l	yes
SW7	downstream	Lead and compounds (as Pb)		11/06/2014	N/A	N/A	<20.000	µg/l	yes
SW7	downstream		Magnesium	11/06/2014	N/A	N/A	4.84	mg/l	yes
SW7	downstream		Manganese (as Mn)	11/06/2014	N/A	N/A	23.00	µg/l	yes
SW7	downstream	Nickel and compounds (as Ni)		11/06/2014	N/A	N/A	20.00	µg/l	yes
SW7	downstream		Potassium	11/06/2014	N/A	N/A	1.04	mg/l	yes
SW7	downstream	Zinc and compounds (as Zn)		11/06/2014	N/A	N/A	90.00	µg/l	yes
SW7	downstream	Mercury and compounds (as Hg)		11/06/2014	N/A	N/A	<1.000	µg/l	yes
SW7	downstream		Sulphate	11/06/2014	N/A	N/A	<2.500	mg/l SO4	yes
SW7	downstream	Total phosphorus		11/06/2014	N/A	N/A	<0.010	mg/l P	yes
SW7	downstream		pH	25/07/2014	6-9	All values < ELV	7.10	pH units	yes
SW7	downstream		Total Ammonia	25/07/2014	1	All results < 1.2 x ELV	0.12	mg/L	yes
SW7	downstream		Conductivity	25/07/2014	750	All results < 1.2 x ELV	189.00	µS/cm @20oC	yes
SW7	downstream		Suspended Solids	25/07/2014	N/A	N/A	1.00	mg/L	yes
SW7	downstream		COD	25/07/2014	N/A	N/A	25.00	mg/L	yes
SW7	downstream	Chlorides (as Cl)		25/07/2014	N/A	N/A	36.71	mg/L	yes
SW7	downstream		pH	20/08/2014	6-9	All values < ELV	6.50	pH units	yes
SW7	downstream		Total Ammonia	20/08/2014	1	All results < 1.2 x ELV	0.16	mg/L	yes
SW7	downstream		Conductivity	20/08/2014	750	All results < 1.2 x ELV	212.00	µS/cm @20oC	yes
SW7	downstream		Suspended Solids	20/08/2014	N/A	N/A	26.00	mg/L	yes
SW7	downstream		COD	20/08/2014	N/A	N/A	83.00	mg/L	yes
SW7	downstream	Chlorides (as Cl)		20/08/2014	N/A	N/A	40.55	mg/L	yes

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)				Lic No:	W0089-02	Year	2014		
SW7	downstream		pH	17/09/2014	6-9	All values < ELV	7.10	pH units	yes
SW7	downstream		Total Ammonia	17/09/2014	1	All results < 1.2 x ELV	0.06	mg/L	yes
SW7	downstream		Conductivity	17/09/2014	750	All results < 1.2 x ELV	198.00	µS/cm @20oC	yes
SW7	downstream		Suspended Solids	17/09/2014	N/A	N/A	<1	mg/L	yes
SW7	downstream		COD	17/09/2014	N/A	N/A	22.00	mg/L	yes
SW7	downstream	Chlorides (as Cl)		17/09/2014	N/A	N/A	42.37	mg/L	yes
SW7	downstream		pH	16/10/2014	6-9	All values < ELV	6.60	pH units	yes
SW7	downstream		Total Ammonia	16/10/2014	1	All results < 1.2 x ELV	0.21	mg/L	yes
SW7	downstream		Conductivity	16/10/2014	750	All results < 1.2 x ELV	209.00	µS/cm @20oC	yes
SW7	downstream		Suspended Solids	16/10/2014	N/A	N/A	3.00	mg/L	yes
SW7	downstream		COD	16/10/2014	N/A	N/A	22.00	mg/L	yes
SW7	downstream	Chlorides (as Cl)		16/10/2014	N/A	N/A	44.28	mg/L	yes
SW7	downstream		pH	20/11/2014	6-9	All values < ELV	6.50	pH units	yes
SW7	downstream		Total Ammonia	20/11/2014	1	All results < 1.2 x ELV	0.05	mg/L	yes
SW7	downstream		Conductivity	20/11/2014	750	All results < 1.2 x ELV	174.00	µS/cm @20oC	yes
SW7	downstream		Suspended Solids	20/11/2014	N/A	N/A	5.00	mg/L	yes
SW7	downstream		COD	20/11/2014	N/A	N/A	22.00	mg/L	yes
SW7	downstream	Chlorides (as Cl)		20/11/2014	N/A	N/A	37.47	mg/L	yes
SW7	downstream		pH	17/12/2014	6-9	All values < ELV	6.20	pH units	yes
SW7	downstream		Total Ammonia	17/12/2014	1	All results < 1.2 x ELV	0.06	mg/L	yes
SW7	downstream		Conductivity	17/12/2014	750	All results < 1.2 x ELV	177.00	µS/cm @20oC	yes
SW7	downstream		Suspended Solids	17/12/2014	N/A	N/A	1.00	mg/L	yes
SW7	downstream		COD	17/12/2014	N/A	N/A	21.00	mg/L	yes
SW7	downstream	Chlorides (as Cl)		17/12/2014	N/A	N/A	42.99	mg/L	yes
SW8	downstream		Total Ammonia	28/03/2014	1	All results < 1.2 x ELV	0.04	mg/l NH3	yes
SW8	downstream	Chlorides (as Cl)		28/03/2014	N/A	N/A	47.99	mg/l	yes
SW8	downstream		Conductivity	28/03/2014	750	All results < 1.2 x ELV	143	µS/cm @20oC	yes
SW8	downstream		Total Ammonia	15/05/2014	1	All results < 1.2 x ELV	0.45	mg/l NH3	yes
SW8	downstream	Chlorides (as Cl)		15/05/2014	N/A	N/A	34.7	mg/l	yes
SW8	downstream		Conductivity	15/05/2014	750	All results < 1.2 x ELV	127	µS/cm @20oC	yes
SW8	downstream		Dissolved Oxygen	15/05/2014	N/A	N/A	12.12	mg/l O2	yes
SW8	downstream		Boron	15/05/2014	N/A	N/A	0.01	mg/l	yes
SW8	downstream	Cadmium and compounds (as Cd)		15/05/2014	N/A	N/A	<20.000	µg/l	yes
SW8	downstream		Calcium	15/05/2014	N/A	N/A	16.2	mg/l	yes
SW8	downstream	Chromium and compounds (as Cr)		15/05/2014	N/A	N/A	<20.000	µg/l	yes
SW8	downstream	Copper and compounds (as Cu)		15/05/2014	N/A	N/A	23	µg/l	yes
SW8	downstream		Iron	15/05/2014	N/A	N/A	1315	µg/l	yes
SW8	downstream	Lead and compounds (as Pb)		15/05/2014	N/A	N/A	<20.000	µg/l	yes
SW8	downstream		Magnesium	15/05/2014	N/A	N/A	5.47	mg/l	yes
SW8	downstream		Manganese (as Mn)	15/05/2014	N/A	N/A	480	µg/l	yes
SW8	downstream	Nickel and compounds (as Ni)		15/05/2014	N/A	N/A	<20.000	µg/l	yes
SW8	downstream		Potassium	15/05/2014	N/A	N/A	3.54	mg/l	yes
SW8	downstream	Zinc and compounds (as Zn)		15/05/2014	N/A	N/A	234	µg/l	yes
SW8	downstream	Mercury and compounds (as Hg)		15/05/2014	N/A	N/A	<1.000	µg/l	yes
SW8	downstream		Sulphate	15/05/2014	N/A	N/A	<2.500	mg/l SO4	yes
SW8	downstream	Total phosphorus		15/05/2014	N/A	N/A	0.11	mg/l P	yes
SW8	downstream		Total Ammonia	16/10/2014	1	All results < 1.2 x ELV	0.05	mg/l NH3	yes
SW8	downstream	Chlorides (as Cl)		16/10/2014	N/A	N/A	33.89	mg/l	yes
SW9	downstream		Total Ammonia	28/03/2014	1	All results < 1.2 x ELV	0.15	mg/l NH3	yes
SW9	downstream	Chlorides (as Cl)		28/03/2014	N/A	N/A	79.75	mg/l	yes
SW9	downstream		Conductivity	28/03/2014	750	All results < 1.2 x ELV	241	µS/cm @20oC	yes
SW9	downstream		Total Ammonia	15/05/2014	1	All results < 1.2 x ELV	0.15	mg/l NH3	yes
SW9	downstream	Chlorides (as Cl)		15/05/2014	N/A	N/A	66.44	mg/l	yes
SW9	downstream		Conductivity	15/05/2014	750	All results < 1.2 x ELV	244	µS/cm @20oC	yes
SW9	downstream		Dissolved Oxygen	15/05/2014	N/A	N/A	5.9	mg/l O2	yes
SW9	downstream		Boron	15/05/2014	N/A	N/A	0.02	mg/l	yes
SW9	downstream	Cadmium and compounds (as Cd)		15/05/2014	N/A	N/A	<20.000	µg/l	yes
SW9	downstream		Calcium	15/05/2014	N/A	N/A	3.15	mg/l	yes
SW9	downstream	Chromium and compounds (as Cr)		15/05/2014	N/A	N/A	<120.000	µg/l	yes
SW9	downstream	Copper and compounds (as Cu)		15/05/2014	N/A	N/A	<20.000	µg/l	yes
SW9	downstream		Iron	15/05/2014	N/A	N/A	2494	µg/l	yes
SW9	downstream	Lead and compounds (as Pb)		15/05/2014	N/A	N/A	<20.000	µg/l	yes
SW9	downstream		Magnesium	15/05/2014	N/A	N/A	4.49	mg/l	yes
SW9	downstream		Manganese (as Mn)	15/05/2014	N/A	N/A	877	µg/l	yes
SW9	downstream	Nickel and compounds (as Ni)		15/05/2014	N/A	N/A	<20.000	µg/l	yes
SW9	downstream		Potassium	15/05/2014	N/A	N/A	0.84	mg/l	yes
SW9	downstream	Zinc and compounds (as Zn)		15/05/2014	N/A	N/A	<20.000	µg/l	yes
SW9	downstream	Mercury and compounds (as Hg)		15/05/2014	N/A	N/A	<1.000	µg/l	yes
SW9	downstream		Sulphate	15/05/2014	N/A	N/A	<2.500	mg/l SO4	yes
SW9	downstream	Total phosphorus		15/05/2014	N/A	N/A	<0.010	mg/l P	yes
SW9	downstream		Total Ammonia	16/10/2014	1	All results < 1.2 x ELV	0.05	mg/l NH3	yes
SW9	downstream	Chlorides (as Cl)		16/10/2014	N/A	N/A	58.53	mg/l	yes

*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
SW6	23/01/2014	Evidence of staining and contaminated discharge	site	Intercept contamination before leaving landfill cell	This was the subject of a compliance investigation. Remedial works were undertaken to prevent contaminated waters leaving the site
SW6	11/02/2014	Evidence of staining and contaminated discharge	site	As above	As above
SW6	27/03/2014	Evidence of staining and contaminated discharge	site	As above	As above
SW6	24/04/2014	Evidence of staining and contaminated discharge	site	As above	As above

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

4 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below

Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If [External /Internal Lab](#) [Assessment of results checklist](#) or please detail what areas require improvement in additional information [Quality checklist](#) [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/ Substance ^{Note 1}	Type of sample	Frequency of monitoring	Averaging period	licence or any revision therof ^{Note 2}	licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	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

5 Continuous monitoring

Does your site carry out continuous emissions to water/sewer monitoring?

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

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

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

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

Additional Information
Yes SW7
No
Yes Service & Maintenance contract in place
No

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
SW7	Water	volumetric flow	N/A	1 hour	N/A	l/s	N/A	N/A	0	0	Volumes not required to be recorded/calculated
SW7	Water	pH	6-9	1 hour	All values < ELV	pH units	N/A	N/A	0	0	
SW7	Water	Temperature	N/A	1 hour	N/A	degrees C	N/A	N/A	0	0	
SW7	Water	Conductivity	750	1 hour	All values < ELV	µS/cm @20oC	N/A	N/A	0	0	
SW7	Water	Ammonia (as N)	1	1 hour	All values < ELV	mg/L	N/A	N/A	0	0	Volumes not required to be recorded/calculated
SW7	Water	Total organic carbon (TOC) (as total C or COD/3)	60	1 hour	All values < ELV	ppm	N/A	N/A	0	0	Volumes not required to be recorded/calculated

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)

- 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?

Yes	
3 years	
Yes	
1	
1	
0	
N/A	
N/A	
N/A	
N/A	
N/A	
Yes	
Yes	
N/A	

- Please list any sump integrity failures in table B1**
- 10 Do all sumps and chambers have high level liquid alarms?
 - 11 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
 - 12 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)
	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 line with BS8007/EPA Guidance? [bundling and storage guidelines](#)

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

Yes	
Yes	
Yes	

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**

- 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)

Yes	
3 years	

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: W0089-02

Year

2014

		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 separately through ALDER as a licensee return AND answer questions 5-12 below.	Groundwater monitoring template yes
5	Is the contamination related to operations at the facility (either current and/or historic)	yes
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	yes
7	Please specify the proposed time frame for the remediation strategy	Ongoing
8	Is there a licence condition to carry out/update ELRA for the site?	yes
9	Has any type of risk assesment 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?	no

Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER

Groundwater contamination is evident at monitoring locations on the western boundary of the site. Investigation and assessment of the contamination was updated in October 2014 and a biannual report on the issue is required for submission by the licensee. Ongoing monitoring will ensure that any further deterioration and/or off site impacts will be detected. Reports, including a groundwater risk assessment, are uploaded to EDEN.

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
20/08/2014	GW1	Total ammonia	Konelab Aquakem	Quarterly	0.23	0.23	mg/l NH3	0.065-0.175	<0.014	no
20/08/2014	GW1	Conductivity	Electrometry	Quarterly	303	299	µS/cm @20oC	800-1875	N/A	no
16/10/2014	GW1	Total ammonia	Konelab Aquakem	Quarterly		<0.01	mg/l NH3	0.065-0.175	<0.014	no
16/10/2014	GW1	Conductivity	Electrometry	Quarterly		303	µS/cm @20oC	800-1875	N/A	no
28/03/2014	GW8	Total ammonia	Konelab Aquakem	Quarterly	0.73	0.73	mg/l NH3	0.065-0.175	<0.014	no
28/03/2014	GW8	Conductivity	Electrometry	Quarterly	480	327	µS/cm @20oC	800-1875	N/A	no
15/05/2014	GW8	Total ammonia	Konelab Aquakem	Quarterly		0.28	mg/l NH3	0.065-0.175	<0.014	no
15/05/2014	GW8	Conductivity	Electrometry	Quarterly		318	µS/cm @20oC	800-1875	N/A	no
15/05/2014	GW8	Chloride	Konelab Aquakem	Annual		53.38	mg/l	24-187.5	250	no
15/05/2014	GW8	Boron	ICP-MS	Annual		0.02	mg/l	0.75	N/A	no
15/05/2014	GW8	Cadmium	ICP-MS	Annual		<20.000	µg/l	3.75	N/A	no
15/05/2014	GW8	Calcium	ICP-MS	Annual		42.7	mg/l	N/A	N/A	no
15/05/2014	GW8	Chromium (total)	ICP-MS	Annual		<20.000	µg/l	37.5	4.7	no
15/05/2014	GW8	Copper	ICP-MS	Annual		<20.000	µg/l	1500	5	no
15/05/2014	GW8	Iron	ICP-MS	Annual		5087	µg/l		N/A	no
15/05/2014	GW8	Lead	ICP-MS	Annual		<20.000	µg/l	18.75	7.2	no
15/05/2014	GW8	Magnesium	ICP-MS	Annual		10.8	mg/l	N/A	N/A	no

Groundwater/Soil monitoring template				Lic No:	W0089-02	Year	2014			
15/05/2014	GW8	Manganese	ICP-MS	Annual		2390	µg/l	N/A	N/A	no
15/05/2014	GW8	Nickel	ICP-MS	Annual		<20.000	µg/l	15	20	no
15/05/2014	GW8	Potassium	ICP-MS	Annual		1.36	mg/l	N/A	N/A	no
15/05/2014	GW8	Zinc	ICP-MS	Annual		<20.000	µg/l	N/A	40	no
15/05/2014	GW8	Cyanide (total)	Steam Distillation & Colourimetry	Annual		32	µg/l	37.5	10	no
15/05/2014	GW8	Flouride	Konelab Aquakem	Annual		<0.020	mg/l	N/A	0.5	no
15/05/2014	GW8	Mercury	ICP-MS	Annual		<1.000	µg/l	0.75	0.05	no
15/05/2014	GW8	Sulphate	Konelab Aquakem	Annual		8.35	mg/l SO4	187.5	N/A	no
15/05/2014	GW8	Total Phosphorous	ICP-MS	Annual		0.41	mg/l P	N/A	0.075	no
20/08/2014	GW8	Total ammonia	Konelab Aquakem	Quarterly		0.18	mg/l NH3	0.065-0.175	<0.014	no
20/08/2014	GW8	Conductivity	Electrometry	Quarterly		480	µS/cm @20oC	800-1875	N/A	no
16/10/2014	GW8	Total ammonia	Konelab Aquakem	Quarterly		0.13	mg/l NH3	0.065-0.175	<0.014	no
16/10/2014	GW8	Conductivity	Electrometry	Quarterly		277	µS/cm @20oC	800-1875	N/A	no

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
28/03/2014	GW2	Total ammonia	Konelab Aquakem	Quarterly	0.16	0.02	mg/l NH3	0.065-0.175	<0.014	no
28/03/2014	GW2	Conductivity	Electrometry	Quarterly	362	247	µS/cm @20oC	800-1875	N/A	no
15/05/2014	GW2	Total ammonia	Konelab Aquakem	Quarterly		0.16	mg/l NH3	0.065-0.175	<0.014	no
15/05/2014	GW2	Conductivity	Electrometry	Quarterly		288	µS/cm @20oC	800-1875	N/A	no
15/05/2014	GW2	Chloride	Konelab Aquakem	Annual		22.11	mg/l	24-187.5	250	no
15/05/2014	GW2	Boron	ICP-MS	Annual		0.02	mg/l	0.75	N/A	no
15/05/2014	GW2	Cadmium	ICP-MS	Annual		<20.000	µg/l	3.75	N/A	no
15/05/2014	GW2	Calcium	ICP-MS	Annual		60.1	mg/l	N/A	N/A	no
15/05/2014	GW2	Chromium (total)	ICP-MS	Annual		<20.000	µg/l	37.5	4.7	no
15/05/2014	GW2	Copper	ICP-MS	Annual		<20.000	µg/l	1500	5	no
15/05/2014	GW2	Iron	ICP-MS	Annual		1130	µg/l		N/A	no
15/05/2014	GW2	Lead	ICP-MS	Annual		<20.000	µg/l	18.75	7.2	no
15/05/2014	GW2	Magnesium	ICP-MS	Annual		5.34	mg/l	N/A	N/A	no
15/05/2014	GW2	Manganese	ICP-MS	Annual		848	µg/l	N/A	N/A	no
15/05/2014	GW2	Nickel	ICP-MS	Annual		<20.000	µg/l	15	20	no
15/05/2014	GW2	Potassium	ICP-MS	Annual		3.5	mg/l	N/A	N/A	no
15/05/2014	GW2	Zinc	ICP-MS	Annual		<20.000	µg/l	N/A	40	no
15/05/2014	GW2	Cyanide (total)	Steam Distillation & Colourimetry	Annual		19	µg/l	37.5	10	no
15/05/2014	GW2	Flouride	Konelab Aquakem	Annual		<0.020	mg/l	N/A	0.5	no
15/05/2014	GW2	Mercury	ICP-MS	Annual		<1.000	µg/l	0.75	0.05	no
15/05/2014	GW2	Sulphate	Konelab Aquakem	Annual		17.34	mg/l SO4	187.5	N/A	no
15/05/2014	GW2	Total Phosphorous	ICP-MS	Annual		<0.01	mg/l P	N/A	0.075	no
20/08/2014	GW2	Total ammonia	Konelab Aquakem	Quarterly		<0.01	mg/l NH3	0.065-0.175	<0.014	no
20/08/2014	GW2	Conductivity	Electrometry	Quarterly		338	µS/cm @20oC	800-1875	N/A	no
16/10/2014	GW2	Total ammonia	Konelab Aquakem	Quarterly		<0.01	mg/l NH3	0.065-0.175	<0.014	no
16/10/2014	GW2	Conductivity	Electrometry	Quarterly		362	µS/cm @20oC	800-1875	N/A	no

Groundwater/Soil monitoring template					Lic No:	W0089-02	Year	2014		
28/03/2014	GW4	Total ammonia	Konelab Aquakem	Quarterly	1.2	0.16	mg/l NH3	0.065-0.175	<0.014	no
28/03/2014	GW4	Conductivity	Electrometry	Quarterly	365	322	µS/cm @20oC	800-1875	N/A	no
15/05/2014	GW4	Total ammonia	Konelab Aquakem	Quarterly		1.2	mg/l NH3	0.065-0.175	<0.014	no
15/05/2014	GW4	Conductivity	Electrometry	Quarterly		365	µS/cm @20oC	800-1875	N/A	no
15/05/2014	GW4	Chloride	Konelab Aquakem	Annual		34.6	mg/l	24-187.5	250	no
15/05/2014	GW4	Boron	ICP-MS	Annual		0.02	mg/l	0.75	N/A	no
15/05/2014	GW4	Cadmium	ICP-MS	Annual		<20.000	µg/l	3.75	N/A	no
15/05/2014	GW4	Calcium	ICP-MS	Annual		77.7	mg/l	N/A	N/A	no
15/05/2014	GW4	Chromium (total)	ICP-MS	Annual		<20.000	µg/l	37.5	4.7	no
15/05/2014	GW4	Copper	ICP-MS	Annual		<20.000	µg/l	1500	5	no
15/05/2014	GW4	Iron	ICP-MS	Annual		2201	µg/l		N/A	no
15/05/2014	GW4	Lead	ICP-MS	Annual		<20.000	µg/l	18.75	7.2	no
15/05/2014	GW4	Magnesium	ICP-MS	Annual		4.95	mg/l	N/A	N/A	no
15/05/2014	GW4	Manganese	ICP-MS	Annual		2330	µg/l	N/A	N/A	no
15/05/2014	GW4	Nickel	ICP-MS	Annual		<20.000	µg/l	15	20	no
15/05/2014	GW4	Potassium	ICP-MS	Annual		1.05	mg/l	N/A	N/A	no
15/05/2014	GW4	Zinc	ICP-MS	Annual		30	µg/l	N/A	40	no
15/05/2014	GW4	Cyanide (total)	Steam Distillation & Colourimetry	Annual		20	µg/l	37.5	10	no
15/05/2014	GW4	Flouride	Konelab Aquakem	Annual		<0.02	mg/l	N/A	0.5	no
15/05/2014	GW4	Mercury	ICP-MS	Annual		<1.000	µg/l	0.75	0.05	no
15/05/2014	GW4	Sulphate	Konelab Aquakem	Annual		8.43	mg/l SO4	187.5	N/A	no
15/05/2014	GW4	Total Phosphorous	ICP-MS	Annual		0.17	mg/l P	N/A	0.075	no
20/08/2014	GW4	Total ammonia	Konelab Aquakem	Quarterly		0.01	mg/l NH3	0.065-0.175	<0.014	no
20/08/2014	GW4	Conductivity	Electrometry	Quarterly		296	µS/cm @20oC	800-1875	N/A	no
16/10/2014	GW4	Total ammonia	Konelab Aquakem	Quarterly		<0.01	mg/l NH3	0.065-0.175	<0.014	no
16/10/2014	GW4	Conductivity	Electrometry	Quarterly		179	µS/cm @20oC	800-1875	N/A	no
28/03/2014	GW5	Total ammonia	Konelab Aquakem	Quarterly	0.66	0.02	mg/l NH3	0.065-0.175	<0.014	no
28/03/2014	GW5	Conductivity	Electrometry	Quarterly	363	218	µS/cm @20oC	800-1875	N/A	no
15/05/2014	GW5	Total ammonia	Konelab Aquakem	Quarterly		0.05	mg/l NH3	0.065-0.175	<0.014	no
15/05/2014	GW5	Conductivity	Electrometry	Quarterly		276	µS/cm @20oC	800-1875	N/A	no
15/05/2014	GW5	Chloride	Konelab Aquakem	Annual		47.44	mg/l	24-187.5	250	no
15/05/2014	GW5	Boron	ICP-MS	Annual		0.02	mg/l	0.75	N/A	no
15/05/2014	GW5	Cadmium	ICP-MS	Annual		<20.000	µg/l	3.75	N/A	no
15/05/2014	GW5	Calcium	ICP-MS	Annual		39.5	mg/l	N/A	N/A	no
15/05/2014	GW5	Chromium (total)	ICP-MS	Annual		<20.000	µg/l	37.5	4.7	no
15/05/2014	GW5	Copper	ICP-MS	Annual		<20.000	µg/l	1500	5	no
15/05/2014	GW5	Iron	ICP-MS	Annual		1382	µg/l		N/A	no
15/05/2014	GW5	Lead	ICP-MS	Annual		<20.000	µg/l	18.75	7.2	no
15/05/2014	GW5	Magnesium	ICP-MS	Annual		5.32	mg/l	N/A	N/A	no
15/05/2014	GW5	Manganese	ICP-MS	Annual		465	µg/l	N/A	N/A	no
15/05/2014	GW5	Nickel	ICP-MS	Annual		<20.000	µg/l	15	20	no
15/05/2014	GW5	Potassium	ICP-MS	Annual		1.1	mg/l	N/A	N/A	no
15/05/2014	GW5	Zinc	ICP-MS	Annual		124	µg/l	N/A	40	no
15/05/2014	GW5	Cyanide (total)	Steam Distillation & Colourimetry	Annual		14	µg/l	37.5	10	no
15/05/2014	GW5	Flouride	Konelab Aquakem	Annual		<0.020	mg/l	N/A	0.5	no
15/05/2014	GW5	Mercury	ICP-MS	Annual		<1.000	µg/l	0.75	0.05	no
15/05/2014	GW5	Sulphate	Konelab Aquakem	Annual		<2.500	mg/l SO4	187.5	N/A	no
15/05/2014	GW5	Total Phosphorous	ICP-MS	Annual		0.08	mg/l P	N/A	0.075	no
20/08/2014	GW5	Total ammonia	Konelab Aquakem	Quarterly		0.02	mg/l NH3	0.065-0.175	<0.014	no

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20/08/2014	GW5	Conductivity	Electrometry	Quarterly		363	µS/cm @20oC	800-1875	N/A	no
16/10/2014	GW5	Total ammonia	Konelab Aquakem	Quarterly		0.66	mg/l NH3	0.065-0.175	<0.014	no
16/10/2014	GW5	Conductivity	Electrometry	Quarterly		221	µS/cm @20oC	800-1875	N/A	no
28/03/2014	GW6	Total ammonia	Konelab Aquakem	Quarterly	0.71	0.66	mg/l NH3	0.065-0.175	<0.014	no
28/03/2014	GW6	Conductivity	Electrometry	Quarterly	536	489	µS/cm @20oC	800-1875	N/A	no
15/05/2014	GW6	Total ammonia	Konelab Aquakem	Quarterly		0.71	mg/l NH3	0.065-0.175	<0.014	no
15/05/2014	GW6	Conductivity	Electrometry	Quarterly		506	µS/cm @20oC	800-1875	N/A	no
15/05/2014	GW6	Chloride	Konelab Aquakem	Annual		42.29	mg/l	24-187.5	250	no
15/05/2014	GW6	Boron	ICP-MS	Annual		0.01	mg/l	0.75	N/A	no
15/05/2014	GW6	Cadmium	ICP-MS	Annual		<20.000	µg/l	3.75	N/A	no
15/05/2014	GW6	Calcium	ICP-MS	Annual		84.8	mg/l	N/A	N/A	no
15/05/2014	GW6	Chromium (total)	ICP-MS	Annual		23	µg/l	37.5	4.7	no
15/05/2014	GW6	Copper	ICP-MS	Annual		32	µg/l	1500	5	no
15/05/2014	GW6	Iron	ICP-MS	Annual		15935	µg/l		N/A	no
15/05/2014	GW6	Lead	ICP-MS	Annual		<20.000	µg/l	18.75	7.2	no
15/05/2014	GW6	Magnesium	ICP-MS	Annual		10.8	mg/l	N/A	N/A	no
15/05/2014	GW6	Manganese	ICP-MS	Annual		2994	µg/l	N/A	N/A	no
15/05/2014	GW6	Nickel	ICP-MS	Annual		<20.000	µg/l	15	20	no
15/05/2014	GW6	Potassium	ICP-MS	Annual		2.92	mg/l	N/A	N/A	no
15/05/2014	GW6	Zinc	ICP-MS	Annual		69	µg/l	N/A	40	no
15/05/2014	GW6	Cyanide (total)	Steam Distillation & Colourimetry	Annual		23	µg/l	37.5	10	no
15/05/2014	GW6	Flouride	Konelab Aquakem	Annual		<0.020	mg/l	N/A	0.5	no
15/05/2014	GW6	Mercury	ICP-MS	Annual		<1.000	µg/l	0.75	0.05	no
15/05/2014	GW6	Sulphate	Konelab Aquakem	Annual		5.2	mg/l SO4	187.5	N/A	no
15/05/2014	GW6	Total Phosphorous	ICP-MS	Annual		1.03	mg/l P	N/A	0.075	no
20/08/2014	GW6	Total ammonia	Konelab Aquakem	Quarterly		0.67	mg/l NH3	0.065-0.175	<0.014	no
20/08/2014	GW6	Conductivity	Electrometry	Quarterly		484	µS/cm @20oC	800-1875	N/A	no
16/10/2014	GW6	Total ammonia	Konelab Aquakem	Quarterly		0.44	mg/l NH3	0.065-0.175	<0.014	no
16/10/2014	GW6	Conductivity	Electrometry	Quarterly		536	µS/cm @20oC	800-1875	N/A	no
28/03/2014	GW7	Total ammonia	Konelab Aquakem	Quarterly	40.88	26.1	mg/l NH3	0.065-0.175	<0.014	yes
28/03/2014	GW7	Conductivity	Electrometry	Quarterly	1250	1036	µS/cm @20oC	800-1875	N/A	yes
15/05/2014	GW7	Total ammonia	Konelab Aquakem	Quarterly		32.21	mg/l NH3	0.065-0.175	<0.014	yes
15/05/2014	GW7	Conductivity	Electrometry	Quarterly		1016	µS/cm @20oC	800-1875	N/A	yes
15/05/2014	GW7	Chloride	Konelab Aquakem	Annual		89.78	mg/l	24-187.5	250	yes
15/05/2014	GW7	Boron	ICP-MS	Annual		0.13	mg/l	0.75	N/A	no
15/05/2014	GW7	Cadmium	ICP-MS	Annual		<20.000	µg/l	3.75	N/A	no
15/05/2014	GW7	Calcium	ICP-MS	Annual		146.3	mg/l	N/A	N/A	yes
15/05/2014	GW7	Chromium (total)	ICP-MS	Annual		<20.000	µg/l	37.5	4.7	no
15/05/2014	GW7	Copper	ICP-MS	Annual		<20.000	µg/l	1500	5	yes
15/05/2014	GW7	Iron	ICP-MS	Annual		7723	µg/l		N/A	no
15/05/2014	GW7	Lead	ICP-MS	Annual		<20.000	µg/l	18.75	7.2	no
15/05/2014	GW7	Magnesium	ICP-MS	Annual		16.5	mg/l	N/A	N/A	yes
15/05/2014	GW7	Manganese	ICP-MS	Annual		7951	µg/l	N/A	N/A	yes
15/05/2014	GW7	Nickel	ICP-MS	Annual		<20.000	µg/l	15	20	no
15/05/2014	GW7	Potassium	ICP-MS	Annual		33.7	mg/l	N/A	N/A	yes
15/05/2014	GW7	Zinc	ICP-MS	Annual		93	µg/l	N/A	40	yes
15/05/2014	GW7	Cyanide (total)	Steam Distillation & Colourimetry	Annual		27	µg/l	37.5	10	no
15/05/2014	GW7	Flouride	Konelab Aquakem	Annual		<0.020	mg/l	N/A	0.5	no
15/05/2014	GW7	Mercury	ICP-MS	Annual		<1.000	µg/l	0.75	0.05	no

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15/05/2014	GW7	Sulphate	Konelab Aquakem	Annual		8.22	mg/l SO4	187.5	N/A	no	
15/05/2014	GW7	Total Phosphorous	ICP-MS	Annual		0.03	mg/l P	N/A	0.075	no	
20/08/2014	GW7	Total ammonia	Konelab Aquakem	Quarterly		40.88	mg/l NH3	0.065-0.175	<0.014	yes	
20/08/2014	GW7	Conductivity	Electrometry	Quarterly		1250	µS/cm @20oC	800-1875	N/A	yes	
16/10/2014	GW7	Total ammonia	Konelab Aquakem	Quarterly		22.16	mg/l NH3	0.065-0.175	<0.014	yes	
16/10/2014	GW7	Conductivity	Electrometry	Quarterly		1202	µS/cm @20oC	800-1875	N/A	yes	
28/03/2014	GW8	Total ammonia	Konelab Aquakem	Quarterly	0.73	0.73	mg/l NH3	0.065-0.175	<0.014	no	
28/03/2014	GW8	Conductivity	Electrometry	Quarterly	480	327	µS/cm @20oC	800-1875	N/A	no	
15/05/2014	GW8	Total ammonia	Konelab Aquakem	Quarterly		0.28	mg/l NH3	0.065-0.175	<0.014	no	
15/05/2014	GW8	Conductivity	Electrometry	Quarterly		318	µS/cm @20oC	800-1875	N/A	no	
15/05/2014	GW8	Chloride	Konelab Aquakem	Annual		53.38	mg/l	24-187.5	250	no	
15/05/2014	GW8	Boron	ICP-MS	Annual		0.02	mg/l	0.75	N/A	no	
15/05/2014	GW8	Cadmium	ICP-MS	Annual		<20.000	µg/l	3.75	N/A	no	
15/05/2014	GW8	Calcium	ICP-MS	Annual		42.7	mg/l	N/A	N/A	no	
15/05/2014	GW8	Chromium (total)	ICP-MS	Annual		<20.000	µg/l	37.5	4.7	no	
15/05/2014	GW8	Copper	ICP-MS	Annual		<20.000	µg/l	1500	5	no	
15/05/2014	GW8	Iron	ICP-MS	Annual		5087	µg/l		N/A	no	
15/05/2014	GW8	Lead	ICP-MS	Annual		<20.000	µg/l	18.75	7.2	no	
15/05/2014	GW8	Magnesium	ICP-MS	Annual		10.8	mg/l	N/A	N/A	no	
15/05/2014	GW8	Manganese	ICP-MS	Annual		2390	µg/l	N/A	N/A	no	
15/05/2014	GW8	Nickel	ICP-MS	Annual		<20.000	µg/l	15	20	no	
15/05/2014	GW8	Potassium	ICP-MS	Annual		1.36	mg/l	N/A	N/A	no	
15/05/2014	GW8	Zinc	ICP-MS	Annual		<20.000	µg/l	N/A	40	no	
15/05/2014	GW8	Cyanide (total)	Steam Distillation & Colourimetry	Annual		32	µg/l	37.5	10	no	
15/05/2014	GW8	Flouride	Konelab Aquakem	Annual		<0.020	mg/l	N/A	0.5	no	
15/05/2014	GW8	Mercury	ICP-MS	Annual		<1.000	µg/l	0.75	0.05	no	
15/05/2014	GW8	Sulphate	Konelab Aquakem	Annual		8.35	mg/l SO4	187.5	N/A	no	
15/05/2014	GW8	Total Phosphorous	ICP-MS	Annual		0.41	mg/l P	N/A	0.075	no	
20/08/2014	GW8	Total ammonia	Konelab Aquakem	Quarterly		0.18	mg/l NH3	0.065-0.175	<0.014	no	
20/08/2014	GW8	Conductivity	Electrometry	Quarterly		480	µS/cm @20oC	800-1875	N/A	no	
16/10/2014	GW8	Total ammonia	Konelab Aquakem	Quarterly		0.13	mg/l NH3	0.065-0.175	<0.014	no	
16/10/2014	GW8	Conductivity	Electrometry	Quarterly		277	µS/cm @20oC	800-1875	N/A	no	
<p>*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</p>											
<p>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).</p>											
<p>**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)</p>											
							Surface water EQS	Groundwater regulations GTV's	Drinking water (private supply) standards	Drinking water (public supply) standards	Interim Guideline Values (IGV)

Groundwater/Soil monitoring template

Lic No: W0089-02

Year

2014

Table 3: Soil results

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

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

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

			Commentary
1	ELRA initial agreement status	Submitted and agreed by EPA	
2	ELRA review status	SELECT	
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	

Environmental Management Programme/Continuous Improvement Programme template Lic No: W0089-02 Year 2014

Highlighted cells contain dropdown menu click to view		Additional Information	
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	Site procedures make up the EMS
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/Improve landfill gas extraction regieme	Ongoing	Regular & frequent field gas balancing	Individual	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Procure/Replace/Maintain storage units	70	Quotations sought for repairs and purchase of storage units	Individual	Improved Environmental Management Practices
Groundwater protection	Ensure contaminated groundwater/surface water does not impact of site receptors	Ongoing	Consultants proccured to investigate and make reccommendations for way forward on site GW/SW contamination issues	Individual	Remediation of contamination on site

Noise monitoring summary report Lic No: W0089-02 Year 2014

- 1 Was noise monitoring a licence requirement for the AER period?
 - 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](#)
- 3 Does your site have a noise reduction plan?
- 4 When was the noise reduction plan last updated?
- 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

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)?
28/11/2014	12:27 - 13:58	N1		46.9	40.4	50	70.3	No	SELECT	By EPA agreement, nighttime monitoring not required	Yes
28/11/2014	09:06 – 10:38	N6		50.2	42.9	53.7	71.6	No		By EPA agreement, nighttime monitoring not required	Yes
28/11/2014	10:43 – 12:23	N7		51	43.1	54	92.5	No		By EPA agreement, nighttime monitoring not required	Yes
28/11/2014	14:01 – 15:32	N10		51.9	43.4	54.1	78.3	No		By EPA agreement, nighttime monitoring not required	Yes
28/11/2014	15:38 – 17:10	N12		47	40.8	47.6	69.1	No		By EPA agreement, nighttime monitoring not required	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?

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

Any additional comments? (less than 200 words)

- 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

[SEAI - Large Industry Energy Network \(LIEN\)](#)

Additional information	
Q1 2014	
SELECT	Cork County Council has energy usage reduction team in operation countywide
SELECT	N/A

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	47238	51393	N/A	8.8
Total Energy Generated (MWHrs)	0	0		
Total Renewable Energy Generated (MWHrs)	0	0		
Electricity Consumption (MWHrs)	47238	51393		8.8
Fossil Fuels Consumption:	N/A			
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)				
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

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

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 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								
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)					
Non-Hazardous (Tonnes)					

Resource Usage/Energy efficiency summary	Lic No: W0089-02	Year	2014
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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: W0089-02	Year: 2014
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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 B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is to be captured through PRTR reporting)

No	Additional Information
----	------------------------

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

No	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

No	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 relevant EWC code European Waste Catalogue EWC codes	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/ Increase over previous year +/- %	Reason for reduction/ increase from previous reporting year	Packaging Content (%)- only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -

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

4 Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite

SELECT	
--------	--

5 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site

SELECT	
--------	--

6 Does your facility have relevant nuisance controls in place?

SELECT	
--------	--

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

SELECT	
--------	--

8 Do you maintain a sludge register on site?

SELECT	
--------	--

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
N/A - Landfill Closed				

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	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
N/A - Landfill Closed													

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

WASTE SUMMARY Lic No: W0089-02 Year 2014

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
No	Yes	Yes	Yes	Yes	Yes	No	Yes	

.- 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					
N/A - Landfill Capped						

*please note this includes daily cover area

Table 6 Leachate-Landfill only

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

Yes
No

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

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
8299820					No	Bandon WWTP	

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
CH ₄ - 39,375	0	0	No	



[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.18

REFERENCE YEAR	2014
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1. FACILITY IDENTIFICATION

Parent Company Name	Cork County Council
Facility Name	Derryconnell Landfill
PRTR Identification Number	W0089
Licence Number	W0089-02

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Derryconnell
Address 2	Schull
Address 3	
Address 4	
	Cork
Country	Ireland
Coordinates of Location	-7.46596 53.2762
River Basin District	IESW
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Mairead Hales
AER Returns Contact Email Address	mairead.hales@corkcoco.ie
AER Returns Contact Position	Executive Engineer
AER Returns Contact Telephone Number	028 37742
AER Returns Contact Mobile Phone Number	086 6018493
AER Returns Contact Fax Number	028 37742
Production Volume	0.0
Production Volume Units	0
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	3
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(c)	Installations for the disposal of non-hazardous waste
5(c)	Installations for the disposal of non-hazardous waste
5(d)	Landfills
50.1	General

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	Yes
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	
--	--

This question is only applicable if you are an IPPC or Quarry site

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR		METHOD			Please enter all quantities in this section in KGs			
POLLUTANT		Method Used			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
01	Methane (CH4)	C	OTH	LandGEM Modelling	0.0	288249.0	0.0	288249.0

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

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

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

Additional Data Requested from Landfill operators

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

Landfill: Please enter summary data on the quantities of methane flared and / or utilised	Derryconnell Landfill				Facility Total Capacity m3 per hour
	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	
Total estimated methane generation (as per site model)	327624.0	C	OTH	LandGEM Modelling	N/A
Methane flared	39375.0	C	OTH	Landfill Gas Survey	500.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	288249.0	C	OTH	LandGEM Modelling	N/A

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

0

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	Haz Waste : Address of Next Destination Facility	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		Non	Non Haz Waste: Address of Recover/Disposer		
Within the Country	13 02 08	Yes	1.88	other engine, gear and lubricating oils	R13	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0184-01	Clonminam Industrial Estate,Portlaoise,Co. Laois,,Ireland	Enva Ireland Ltd.,W0184-01	Clonminam Industrial Estate,Portlaoise,Co. Laois,,Ireland
Within the Country	15 01 04	No	4.46	metallic packaging	R13	M	Weighed	Offsite in Ireland	Green Dragon Recycling,WFP-CK-10-0060-02	Corbally,Glanmire,Co. Cork,,Ireland		
Within the Country	15 01 04	No	1.22	metallic packaging	R13	M	Weighed	Offsite in Ireland	Mr. Binman Ltd.,W0061-02	Luddenmore,Grange,Kilmallock,Co. Limerick,Ireland		
Within the Country	15 01 06	No	127.22	mixed packaging	R13	M	Weighed	Offsite in Ireland	Bantry Skip Hire,W0136-02	Dunbittern East ,Bantry ,Co. Cork ,,Ireland		
Within the Country	15 01 07	No	46.98	glass packaging	R13	M	Weighed	Offsite in Ireland	Mr. Binman Ltd.,W0061-02	Luddenmore,Grange,Kilmallock,Co. Limerick,Ireland		
Within the Country	16 01 07	Yes	0.26	oil filters	R13	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0184-01	Clonminam Industrial Estate,Portlaoise,Co. Laois,,Ireland	Enva Ireland Ltd.,W0184-01	Clonminam Industrial Estate,Portlaoise,Co. Laois,,Ireland
Within the Country	16 02 14	No	29.38	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	R13	M	Weighed	Offsite in Ireland	KMK Metals Recycling,W0113-03	Road,Tullamore,Co. Offaly,Ireland		
Within the Country	16 05 04	Yes	0.59	gases in pressure containers (including halons) containing dangerous substances	R13	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0184-01	Clonminam Industrial Estate,Portlaoise,Co. Laois,,Ireland	Enva Ireland Ltd.,W0184-01	Clonminam Industrial Estate,Portlaoise,Co. Laois,,Ireland
Within the Country	16 06 01	Yes	2.0	lead batteries	R13	M	Weighed	Offsite in Ireland	KMK Metals Recycling,W0113-03	Road,Tullamore,Co. Offaly,Ireland	Enva Ireland Ltd.,W0184-01	Clonminam Industrial Estate,Portlaoise,Co. Laois,,Ireland
Within the Country	16 06 05	No	1.16	other batteries and accumulators	R13	M	Weighed	Offsite in Ireland	KMK Metals Recycling,W0113-03	Road,Tullamore,Co. Offaly,Ireland		
Within the Country	19 07 03	No	8243.66	landfill leachate other than those mentioned in 19 07 02	D9	M	Weighed	Offsite in Ireland	Cork County Council - Bandon WWTP,.	Glaslin Road,Bandon,Co. Cork,,Ireland		
To Other Countries	20 01 11	No	4.64	textiles	R13	M	Weighed	Abroad	All-Tex Recyclers Ltd.,WMEX05/24	Road,Cloughmills,Co. Antrim,,Ireland		
Within the Country	20 01 25	No	0.0	edible oil and fat	R13	M	Weighed	Offsite in Ireland	Cork Oil Collectors,WFP-CK-08-0002-01	5 St. Lappans Place,Little Island,Cork,,Ireland		
Within the Country	20 01 27	Yes	9.28	paint, inks, adhesives and resins containing dangerous substances	R13	M	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0184-01	Clonminam Industrial Estate,Portlaoise,Co. Laois,,Ireland	Enva Ireland Ltd.,W0184-01	Clonminam Industrial Estate,Portlaoise,Co. Laois,,Ireland
Within the Country	20 01 38	No	13.54	wood other than that mentioned in 20 01 37	R13	M	Weighed	Offsite in Ireland	Bantry Skip Hire,W0136-02	Dunbittern East ,Bantry ,Co. Cork ,,Ireland		
Within the Country	20 01 38	No	42.34	wood other than that mentioned in 20 01 37	R13	M	Weighed	Offsite in Ireland	Ballineen Skip Hire,WFP-CK-10-0054-01-A2	Connagh,Ballineen,Co. Cork,,Ireland		
Within the Country	20 01 40	No	56.82	metals	R13	M	Weighed	Offsite in Ireland	Pouladuff Dismantlers,CK-10-0070-02	Forge Hill,Airport Road,Cork,,Ireland		
Within the Country	20 03 01	No	100.73	mixed municipal waste	D15	M	Weighed	Offsite in Ireland	Greenstar Recycling,W0136-02	Sarsfield Industrial Estate,Glanmire,Co. Cork,,Ireland		
Within the Country	20 03 01	No	174.54	mixed municipal waste	D15	M	Weighed	Offsite in Ireland	Bantry Skip Hire,W0136-02	Dunbittern East ,Bantry ,Co. Cork ,,Ireland		
Within the Country	20 03 07	No	38.12	bulky waste	D15	M	Weighed	Offsite in Ireland	Ballineen Skip Hire,WFP-CK-10-0054-01-A2	Connagh,Ballineen,Co. Cork,,Ireland		
Within the Country	20 03 07	No	92.92	bulky waste	D15	M	Weighed	Offsite in Ireland	Bantry Skip Hire,W0136-02	Dunbittern East ,Bantry ,Co. Cork ,,Ireland		

* Select a row by double-clicking the Description of Waste then click the delete button

[Link to previous years waste data](#)

[Link to previous years waste summary data & percentage change](#)

[Link to Waste Guidance](#)