

Facility Information Summary	
AER Reporting Year	2014
Licence Register Number	W0026-03
Name of site	Kyletalesha Landfill
Site Location.	Mountmellick Road, Portlaoise
NACE Code	
Class/Classes of Activity	Landfill for Non-Hazardous Waste
National Grid Reference (6E, 6 N)	
<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>Landfilling activities ceased on site in November 2012 and completion of capping works on the final section of mini-cell 15b was completed in March 2013. Despite the closed status of the site limited household waste volumes are still accepted at the domestic waste deposit area for off site transfer and disposal by a licensed contractor. In 2013 a tendering process for landfill gas utilisation was initiated and these works are still under way. All environmental monitoring was completed as required under schedule D of the waste licence. Groundwater, landfill gas, flare stack emissions, dust deposition, leachate and surface water monitoring results for 2014 were consistent with previous historical results.</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.

<p>_____ Signature Group/Facility manager <small>(or nominated, suitably qualified and experienced deputy)</small></p>	<p>_____ Date 30-Mar-15 Ken Farrell</p>
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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 <u>do not</u> need to complete the tables	Additional information	
		Yes	UNIFLARE 750m ³ 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	
		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

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

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision therof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments -reason for change in % mass load from previous year if applicable
UNIFLARE	Carbon monoxide (CO2)	Annual	50 mg/Nm ³	No 30min mean can	4.09	mg/Nm3	yes	EN 15058:2004	17	results similar to historic results
	Nitrogen oxides (NOx/NO2)	Annual	150 mg/Nm ³	No 30min mean can	65.79	mg/Nm3	yes	Chemiluminescence	280	results similar to historic results
	Total Organic Compounds (TOC)	Annual	10 mg/Nm ³	No 30min mean can	5.81	mg/Nm3	yes	EN 13526:2002	20.34	results similar to historic results
	Hydrogen Fluoride (HF)	Annual	5 mg/Nm ³	No 30min mean can	<0.54	mg/Nm3	yes	ISO/DIS 15713:2004	<1.89	results similar to historic results
	Hydrogen Chloride (HCL)	Annual	50 mg/Nm ³	No 30min mean can	<0.29	mg/Nm3	yes	EN 1911:2010	<1.01	results similar to historic results
	Volume Flow	Annual	<3,000 Nm3/hr	All 1-hour		Nm3/hour	yes	EN 13284-1		

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision therof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments -reason for change in % mass load from previous year if applicable
D1	Dust Deposition	3 Tmes per year	350 mg/m ² /day	average <	107, 184, 23	y	yes	OTH	N/A	N/A
D2	Dust Deposition	3 Tmes per year	350 mg/m ² /day	average <	128, 202, 16	y	yes	OTH	N/A	N/A
D3	Dust Deposition	3 times per year	350 mg/m ² /day	average <	37, 16, 5	y	yes	OTH	N/A	N/A
D4	Dust Deposition	3 times per year	350 mg/m ² /day	average <	101, 173, 15	y	yes	OTH	N/A	N/A

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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	Flare Outlet and in Site Buildings
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	Irish Biotech Ltd. maintain monitoring equipment
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
Site Office	CH ₄	1.0% v/v	Daily	average <	% v/v	n/a	0%	0	0	Less than ELV for all readings
Site Office	CO ₂	1.5% v/v	Daily	average <	% v/v	n/a	0.10%	0	0	Less than ELV for all readings
Weighbridge	CH ₄	1.0% v/v	Daily	average <	% v/v	n/a	0%	0	0	Less than ELV for all readings
Weighbridge	CO ₂	1.5% v/v	Daily	average <	% v/v	n/a	0.40%	0	0	Less than ELV for all readings
CA Site Office	CH ₄	1.0% v/v	Daily	average <	% v/v	n/a	0.20%	0	0	Less than ELV for all readings
CA Site Office	CO ₂	1.5% v/v	Daily	average <	% v/v	n/a	0%	0	0	Less than ELV for all readings

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

Table A3: Abatement system bypass reporting table

[Bypass](#)

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

Solvent use and management on site	No
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Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes		Solvent regulations Please refer to linked solvent regulations to complete table 5						
8	Table A4: Solvent Management Plan Summary Total VOC	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Emission Limit Value (ELV) in licence or	Compliance		
	Reporting year					SELECT		
						SELECT		
Table A5: Solvent		(I) Inputs (kg)	(O) Outputs (kg)					
	(I) Inputs (kg)	Organic solvent	Solvents lost in	Collected	Fugitive Organic	Solvent	Solvents destroyed	Total emission of Solvent to
	Solvent							
							Total	

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Additional information

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

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	Leachate is Tankered off site to Laois Co. Co. Waste Water Treatment Plant
Yes	Schedule D.5

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
S1	upstream	SELECT	pH	25/03/14, 04/06/14,	6.0 - 9.0	deviate from	7.3, 6.8, 7.4, 7.5	pH units	yes	
			Conductivity	25/03/14, 04/06/14,	1,000	values < ELV	252, 195, 381, 324	µS/cm @20oC	yes	
			Temperature	25/03/14, 04/06/14,	No temperature value shall ex		11.2	degrees C	yes	
			Dissolved Oxygen	25/03/14, 04/06/14,	All values < ELV		59%, 66%, 88%, 58%	no (if no please enter details in co		stagnant nature of water would lend itself to reduced DO levels
			Ammonia (as N)	25/03/14, 04/06/14,	0.14	values < ELV	0.96, 0.39, 1.7, 1.4	mg/L	no	Breakdown of organics in bog contributing to elevated concentrations
		Chlorides (as Cl)	Chloride	25/03/14, 04/06/14,	250	values < ELV	20, 15, 15, 21	mg/L	yes	
			Ortho-phosphate (as PO4)	#####	0.06	values < ELV	<0.01	mg/L	yes	
			Total Oxidised Nitrogen (TON)	#####	No Abnormal Change	values < ELV	0.5	mg/L	yes	
			COD	25/03/14, 04/06/14,	40	values < ELV	58, 119, 65, 76	mg/L	se enter details in co	Elevated concentrations from background sources
			BOD	25/03/14, 04/06/14,	2.6	values < ELV	1.2, <6, 2, 1.7	mg/L	yes	
			Suspended Solids	25/03/14, 04/06/14,	50	values < ELV	<4, 27, <20, <10	mg/L	yes	
			Fluoride	#####	0.5	values < ELV	<0.25	mg/L	yes	
			Sulphate	#####	200	values < ELV	<2.5	mg/L	yes	
			Aluminium	#####	200	values < ELV	37	µg/L	yes	
			Barium	#####	1000	values < ELV	69	µg/L	yes	
			Boron	#####	2000	values < ELV	18	µg/L	yes	
			Calcium	#####	N/A	values < ELV	26	mg/L	yes	
			Cobalt	#####	N/A	values < ELV	<1	µg/L	yes	
			Iron	#####	2000	values < ELV	710	µg/L	yes	
			Magnesium	#####	N/A	values < ELV	2.3	mg/L	yes	
			Manganese (as Mn)	#####	300	values < ELV	230	µg/L	yes	
			Potassium	#####	N/A	values < ELV	1.6	mg/L	yes	
			Selenium	#####	10	values < ELV	<1	µg/L	yes	
			Sodium	#####	200	values < ELV	7.4	mg/L	yes	
			Antimony (as Sb)	#####	5	values < ELV	<1	µg/L	yes	
			Molybdenum	#####	N/A	values < ELV	<1	µg/L	yes	
			Total heavy metals	#####	Various	values < ELV	All less than ELV	µg/L	yes	
S2	onsite		pH	25/03/14, 04/06/14,	6.0 - 9.0	deviate from	7.2, 7, 7, 7.3	pH units	yes	
			Conductivity	25/03/14, 04/06/14,	1,000	values < ELV	397, 303, 534, 557	µS/cm @20oC	yes	
			Temperature	25/03/14, 04/06/14,	25	values < ELV	11	degrees C	yes	
			Dissolved Oxygen	25/03/14, 04/06/14,	All values < ELV		62%, 65%, 51%, 60%	no (if no please enter details in co		stagnant nature of water would lend itself to reduced DO levels
			Ammonia (as N)	25/03/14, 04/06/14,	0.14	values < ELV	3.3, 1.8, 3.1, 8.7	mg/L	se enter details in co	Breakdown of organics in bog & potential input from site contributing to elevated concentrations
			Chloride	25/03/14, 04/06/14,	250	values < ELV	28, 20, 29, 53	mg/L	yes	
			Ortho-phosphate (as PO4)	#####	0.06	values < ELV	0.01	mg/L	yes	
			Total Oxidised Nitrogen (TON)	#####	No Abnormal Change	values < ELV	1.5	mg/L	yes	
			COD	25/03/14, 04/06/14,	40	values < ELV	69, 118, 554, 93	mg/L	se enter details in co	Elevated concentrations similar to background (S1)
			BOD	25/03/14, 04/06/14,	2.6	values < ELV	<6, <6, <100, 7	mg/L	se enter details in co	Marginal exceedance from organics breakdown

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		Suspended Solids	25/03/14, 04/06/14,	50	values < ELV	5, 20, 1640, 20	mg/L	se enter details in co	One exceedence due to heavy rainfall.
		Fluoride	#####	0.5	values < ELV	<0.25	mg/L	yes	
		Sulphate	#####	200	values < ELV	3.8	mg/L	yes	
		Aluminium	#####	200	values < ELV	33	µg/L	yes	
		Barium	#####	1000	values < ELV	85	µg/L	yes	
		Boron	#####	2000	values < ELV	34	µg/L	yes	
		Calcium	#####	N/A	values < ELV	35	mg/L	yes	
		Cobalt	#####	N/A	values < ELV	<1	µg/L	yes	
		Iron	#####	2000	values < ELV	770	µg/L	yes	
		Magnesium	#####	N/A	values < ELV	4.1	mg/L	yes	
		Manganese (as Mn)	#####	300	values < ELV	250	µg/L	yes	
		Potassium	#####	N/A	values < ELV	4.7	mg/L	yes	
		Selenium	#####	10	values < ELV	<1	µg/L	yes	
		Sodium	#####	200	values < ELV	12	mg/L	yes	
		Antimony (as Sb)	#####	5	values < ELV	<1	µg/L	yes	
		Molybdenum	#####	N/A	values < ELV	<1	µg/L	yes	
		Total heavy metals	#####	Various	values < ELV	All less than ELV	µg/L	yes	
S3	downstream	pH	25/03/14, 04/06/14,	6.0 - 9.0	eviate from	7.3, 7.1, 7.5, 7.2	pH units	yes	
		Conductivity	25/03/14, 04/06/14,	1,000	values < ELV	598, 465, 1,118, 766	µS/cm @20oC	yes	
		Temperature	25/03/14, 04/06/14,	25	values < ELV	10.8	degrees C	yes	
		Dissolved Oxygen	25/03/14, 04/06/14,		All values < ELV	60%, 52.4%, 53%, 57%	no (if no please enter details in co		stagnant nature of water would lend itself to reduced DO levels
		Ammonia (as N)	25/03/14, 04/06/14,	0.14	values < ELV	7.9, 4.8, 21, 9.5	mg/L	se enter details in co	Breakdown of organics in bog contributing to elevated concentrations
		Chloride	25/03/14, 04/06/14,	250	values < ELV	43, 45, 97, 62	mg/L	yes	
		Ortho-phosphate (as PO4)	#####	0.06	values < ELV	0.016	mg/L	yes	
		Total Oxidised Nitrogen (TON)	#####		no Abnormal Change	1.4	mg/L	yes	
		COD	25/03/14, 04/06/14,	40	values < ELV	74, 108, 93, 85	mg/L	se enter details in co	Elevated concentrations similar to background
		BOD	25/03/14, 04/06/14,	2.6	values < ELV	<6, 5.8, >21, 6.7	mg/L	se enter details in co	Marginal exceedance from organics breakdown in peat
		Suspended Solids	25/03/14, 04/06/14,	50	values < ELV	4, 25, 33, 13	mg/L	yes	
		Fluoride	#####	0.5	values < ELV	<0.25	mg/L	yes	
		Sulphate	#####	200	values < ELV	5.7	mg/L	yes	
		Aluminium	#####	200	values < ELV	33	µg/L	yes	
		Barium	#####	1000	values < ELV	130	µg/L	yes	
		Boron	#####	2000	values < ELV	95	µg/L	yes	
		Calcium	#####	N/A	values < ELV	41	mg/L	yes	
		Cobalt	#####	N/A	values < ELV	<1	µg/L	yes	
		Iron	#####	2000	values < ELV	1300	µg/L	yes	
		Magnesium	#####	N/A	values < ELV	6	mg/L	yes	
		Manganese (as Mn)	#####	300	values < ELV	260	µg/L	yes	
		Potassium	#####	N/A	values < ELV	7.3	mg/L	yes	
		Selenium	#####	10	values < ELV	<1	µg/L	yes	
		Sodium	#####	200	values < ELV	27	mg/L	yes	
		Antimony (as Sb)	#####	5	values < ELV	<1	µg/L	yes	
		Molybdenum	#####	N/A	values < ELV	<1	µg/L	yes	
		Total heavy metals	#####	Various	values < ELV	All less than ELV	µg/L	yes	
S4	downstream	pH		6.0 - 9.0	eviate from	7.7, 7.6, 7.7, 7.3	pH units	yes	
		Conductivity		1,000	values < ELV	1137, 879, 1266, 1204	µS/cm @20oC	se enter details in co	surface water sampling location also receives runoff from N80 road.
		Temperature	25/03/14, 04/06/14,	25	values < ELV	10.3	degrees C	yes	
		Dissolved Oxygen	25/03/14, 04/06/14,		All values < ELV	80%, 64%, 72%, 74%	no (if no please enter details in co		stagnant nature of water would lend itself to reduced DO levels
		Ammonia (as N)	25/03/14, 04/06/14,	0.14	values < ELV	0.44, 0.22, 0.35, 1.8	mg/L	se enter details in co	Organic input from site, forestry, roads, agriculture and commercial properties in the area.
		Chloride	25/03/14, 04/06/14,	250	values < ELV	98, 85, 146, 109	mg/L	yes	
		Ortho-phosphate (as PO4)	#####	0.06	values < ELV	0.02	mg/L	yes	
		Total Oxidised Nitrogen (TON)	#####		no Abnormal Change	1.1	mg/L	yes	

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			COD	25/03/14, 04/06/14,	40	values < ELV	84, 65, 242, 86	mg/L	se enter details in co	Elevated concentrations similar to background with additional inputs from N80 road
			BOD	25/03/14, 04/06/14,	2.6	values < ELV	<6, 3.3, 14, 5.3	mg/L	se enter details in co	Organic input from site, forestry, roads, agriculture and commercial properties in the area.
			Suspended Solids	25/03/14, 04/06/14,	50	values < ELV	13, 11, 390, 66	mg/L	se enter details in co	2 samples have elevated SS and may be due to runoff from N80 in high rain event.
			Fluoride	#####	0.5	values < ELV	<0.25	mg/L	yes	
			Sulphate	#####	200	values < ELV	30	mg/L	yes	
			Aluminium	#####	200	values < ELV	390	µg/L	se enter details in co	digested sediment in sample during analysis may indicate higher concentration
			Barium	#####	1000	values < ELV	320	µg/L	yes	
			Boron	#####	2000	values < ELV	150	µg/L	yes	
			Calcium	#####	N/A	values < ELV	91	mg/L	yes	
			Cobalt	#####	N/A	values < ELV	<1	µg/L	yes	
			Iron	#####	2000	values < ELV	860	µg/L	yes	
			Magnesium	#####	N/A	values < ELV	17	mg/L	yes	
			Manganese (as Mn)	#####	300	values < ELV	70	µg/L	yes	
			Potassium	#####	N/A	values < ELV	11	mg/L	yes	
			Selenium	#####	10	values < ELV	<1	µg/L	yes	
			Sodium	#####	200	values < ELV	47	mg/L	yes	
			Antimony (as Sb)	#####	5	values < ELV	<1	µg/L	yes	
			Molybdenum	#####	N/A	values < ELV	<1	µg/L	yes	
			Total heavy metals	#####	Various	values < ELV	All less than ELV	µg/L	yes	
S5	onsite		pH	25/03/14, 04/06/14,	6.0 - 9.0	eviate from t	7.2, 7.17.4, 7.3	pH units	yes	
			Conductivity	25/03/14, 04/06/14,	1,000	values < ELV	1686, 1561, 2740, 2190	µS/cm @20oC	yes	Elevated conductivity may be indicator of inputs to drain from site and other commercial sites in the area.
			Temperature	25/03/14, 04/06/14,	25	values < ELV	11.7	degrees C		
			Dissolved Oxygen	25/03/14, 04/06/14,		All values < ELV	37%, 37%, 70%, 32%		no (if no please enter details in co	stagnant nature of water would lend itself to reduced DO levels
			Ammonia (as N)	25/03/14, 04/06/14,	0.14	values < ELV	25, 28, 77, 38	mg/L	se enter details in co	Organic input from site, forestry, roads, agriculture and commercial properties in the area.
			Chloride	25/03/14, 04/06/14,	250	values < ELV	120, 205, 276, 237	mg/L	yes	
			Ortho-phosphate (as PO4)	#####	0.06	values < ELV	0.032	mg/L	yes	
			Total Oxidised Nitrogen (TON)	#####	no Abnormal Chang	values < ELV	1.3	mg/L	yes	
			COD	25/03/14, 04/06/14,	40	values < ELV	59, 47, 134, 68	mg/L	se enter details in co	Elevated concentrations similar to background
			BOD	25/03/14, 04/06/14,	2.6	values < ELV	<6, 8.8, 20, 3.4	mg/L	se enter details in co	Organic input from site, forestry, roads, agriculture and commercial properties in the area.
			Suspended Solids	25/03/14, 04/06/14, 23/09/14,	50	values < ELV	20, 37, 162, 68	mg/L	yes	one instance of high S Solids in Q3 may be due to high rains or increased output from other properties discharging to that area of the drain.
			Fluoride	#####	0.5	values < ELV	<0.5	mg/L	yes	
			Sulphate	#####	200	values < ELV	16	mg/L	yes	
			Aluminium	#####	200	values < ELV	43	µg/L	yes	
			Barium	#####	1000	values < ELV	340	µg/L	yes	
			Boron	#####	2000	values < ELV	73	µg/L	yes	
			Calcium	#####	N/A	values < ELV	91	mg/L	yes	
			Cobalt	#####	N/A	values < ELV	1	µg/L	yes	
			Iron	#####	2000	values < ELV	3900	µg/L	se enter details in co	digested sediment in sample during analysis may indicate higher concentration
			Magnesium	#####	N/A	values < ELV	20	mg/L	yes	
			Manganese (as Mn)	#####	300	values < ELV	230	µg/L	yes	
			Potassium	#####	N/A	values < ELV	28	mg/L	yes	
			Selenium	#####	10	values < ELV	<1	µg/L	yes	
			Sodium	#####	200	values < ELV	150	mg/L	yes	
			Antimony (as Sb)	#####	5	values < ELV	2.4	µg/L	yes	
			Molybdenum	#####	N/A	values < ELV	1.2	µg/L	yes	
			Total heavy metals	#####	Various	values < ELV	All less than ELV	µg/L	yes	
S7	downstream		pH	25/03/14, 04/06/14,	6.0 - 9.0	eviate from t	7.4, 7.1, 7.5, 7	pH units	yes	
			Conductivity	25/03/14, 04/06/14,	1,000	values < ELV	595, 504, 1109, 764	µS/cm @20oC	yes	
			Temperature	25/03/14, 04/06/14,	25	values < ELV	11.4	degrees C	yes	
			Dissolved Oxygen	25/03/14, 04/06/14,		All values < ELV	55%, 50%, 45%, 42%		no (if no please enter details in co	stagnant nature of water would lend itself to reduced DO levels

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		Ammonia (as N)	25/03/14, 04/06/14,	0.14	values < EU 3.3, 3.5, 15, 5.3	mg/L	se enter details in co	Organic input from site, forestry, roads, agriculture and commercial properties in the area.
		Chloride	25/03/14, 04/06/14,	250	values < EU 38, 40, 94, 63	mg/L	yes	
		Ortho-phosphate (as PO4)	#####	0.06	values < EU 0.03	mg/L	yes	
		Total Oxidised Nitrogen (TON)	#####	no Abnormal Change	values < EU 2	mg/L	yes	
		COD	25/03/14, 04/06/14,	40	values < EU 93, 88, 66, 69	mg/L	se enter details in co	Elevated concentrations similar to background
		BOD	25/03/14, 04/06/14,	2.6	values < EU <6, 11, >7.7, 7.6	mg/L	se enter details in co	Organic input from site, forestry, roads, agriculture and commercial properties in the area.
		Suspended Solids	25/03/14, 04/06/14,	50	values < EU <4, <8, <8, <10	mg/L	yes	
		Fluoride	#####	0.5	values < EU <0.25	mg/L	yes	
		Sulphate	#####	200	values < EU 7.5	mg/L	yes	
		Aluminium	#####	200	values < EU 49	µg/L	yes	
		Barium	#####	1000	values < EU 230	µg/L	yes	
		Boron	#####	2000	values < EU 88	µg/L	yes	
		Calcium	#####	N/A	values < EU 54	mg/L	yes	
		Cobalt	#####	N/A	values < EU <1	µg/L	yes	
		Iron	#####	2000	values < EU 1300	µg/L	yes	
		Magnesium	#####	N/A	values < EU 6.4	mg/L	yes	
		Manganese (as Mn)	#####	300	values < EU 210	µg/L	yes	
		Potassium	#####	N/A	values < EU 7.1	mg/L	yes	
		Selenium	#####	10	values < EU <1	µg/L	yes	
		Sodium	#####	200	values < EU 23	mg/L	yes	
		Antimony (as Sb)	#####	5	values < EU <1	µg/L	yes	
		Molybdenum	#####	N/A	values < EU <1	µg/L	yes	
		Total heavy metals	#####	Various	values < EU All less than ELV	µg/L	yes	
S8	upstream	pH	25/03/14, 04/06/14,	6.0 - 9.0	eviate from 7.9, 7.2, 8, 7.8	pH units	yes	
		Conductivity	25/03/14, 04/06/14,	1,000	values < EU 640, 600, 786, 787	µS/cm @20oC	yes	
		Temperature	25/03/14, 04/06/14,	25	values < EU 12.2	degrees C	yes	
		Dissolved Oxygen	25/03/14, 04/06/14,		All values < EU 91%, 95%, 125%, 93%		yes	
		Ammonia (as N)	25/03/14, 04/06/14,	0.14	values < EU 0.13,0.098, 0.021, 0.056	mg/L	yes	
		Chloride	25/03/14, 04/06/14,	250	values < EU 36, 36, 67, 60	mg/L	yes	
		Ortho-phosphate (as PO4)	#####	0.06	values < EU 0.042	mg/L	yes	
		Total Oxidised Nitrogen (TON)	#####	no Abnormal Change	values < EU 2.2	mg/L	yes	
		COD	25/03/14, 04/06/14,	40	values < EU 27, 35, <20, <20	mg/L	yes	
		BOD	25/03/14, 04/06/14,	2.6	values < EU <1.0, 4.1, <1.0, <1.0	mg/L	yes	
		Suspended Solids	25/03/14, 04/06/14,	50	values < EU 6, 17, <8, <10	mg/L	yes	
		Fluoride	#####	0.5	values < EU <0.25	mg/L	yes	
		Sulphate	#####	200	values < EU 22	mg/L	yes	
		Aluminium	#####	200	values < EU 170	µg/L	yes	
		Barium	#####	1000	values < EU 120	µg/L	yes	
		Boron	#####	2000	values < EU 26	µg/L	yes	
		Calcium	#####	N/A	values < EU 84	mg/L	yes	
		Cobalt	#####	N/A	values < EU <1	µg/L	yes	
		Iron	#####	2000	values < EU 360	µg/L	yes	
		Magnesium	#####	N/A	values < EU 5.7	mg/L	yes	
		Manganese (as Mn)	#####	300	values < EU 71	µg/L	yes	
		Potassium	#####	N/A	values < EU 5.5	mg/L	yes	
		Selenium	#####	10	values < EU <1	µg/L	yes	
		Sodium	#####	200	values < EU 19	mg/L	yes	
		Antimony (as Sb)	#####	5	values < EU <1	µg/L	yes	
		Molybdenum	#####	N/A	values < EU <1	µg/L	yes	
		Total heavy metals	#####	Various	values < EU All less than ELV	µg/L	yes	
S9	downstream	pH	25/03/14, 04/06/14,	6.0 - 9.0	eviate from 7.9, 7.7, 8, 7.8	pH units	yes	
		Conductivity	25/03/14, 04/06/14,	1,000	values < EU 656, 598, 796, 795	µS/cm @20oC	yes	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)			W0026-03	Lic No:	W0026-03	Year	2014		
		Temperature	25/03/14, 04/06/14,	25	values < EU	12	degrees C	yes	
		Dissolved Oxygen	25/03/14, 04/06/14,		All values < EU	93%, 94%, 125%, 95%		yes	
		Ammonia (as N)	25/03/14, 04/06/14,	0.14	values < EU	0.27, 0.31, 0.41, 0.25	mg/L	see enter details in co	Organic input from site, forestry, roads, agriculture, WWTP and commercial properties in the area.
		Chloride	25/03/14, 04/06/14,	250	values < EU	34, 37, 69, 55	mg/L	yes	
		Ortho-phosphate (as PO4)	#####	0.06	values < EU	0.04	mg/L	yes	
		Total Oxidised Nitrogen (TON)	#####		no Abnormal Change	values < EU	2.3	mg/L	yes
		COD	25/03/14, 04/06/14,	40	values < EU	32, 34, <20, <20	mg/L	yes	
		BOD	25/03/14, 04/06/14,	2.6	values < EU	<1.0, 4.7, 2, 1.3	mg/L	yes	
		Suspended Solids	25/03/14, 04/06/14,	50	values < EU	5, 14, <8, 40	mg/L	yes	
		Fluoride	#####	0.5	values < EU	<0.25	mg/L	yes	
		Sulphate	#####	200	values < EU	21	mg/L	yes	
		Aluminium	#####	200	values < EU	150	µg/L	yes	
		Barium	#####	1000	values < EU	130	µg/L	yes	
		Boron	#####	2000	values < EU	28	µg/L	yes	
		Calcium	#####	N/A	values < EU	82	mg/L	yes	
		Cobalt	#####	N/A	values < EU	<1	µg/L	yes	
		Iron	#####	2000	values < EU	410	µg/L	yes	
		Magnesium	#####	N/A	values < EU	5.7	mg/L	yes	
		Manganese (as Mn)	#####	300	values < EU	77	µg/L	yes	
		Potassium	#####	N/A	values < EU	5.6	mg/L	yes	
		Selenium	#####	10	values < EU	<1	µg/L	yes	
		Sodium	#####	200	values < EU	19	mg/L	yes	
		Antimony (as Sb)	#####	5	values < EU	<1	µg/L	yes	
		Molybdenum	#####	N/A	values < EU	<1	µg/L	yes	
		Total heavy metals	#####	Various	values < EU	All less than ELV	µg/L	yes	
S10	downstream	pH	25/03/14, 04/06/14,	6.0 - 9.0	deviate from	7.8, 7.7, 7.8, 7.7	pH units	yes	
		Conductivity	25/03/14, 04/06/14,	1,000	values < EU	590, 488, 640, 620	µS/cm @20oC	yes	
		Temperature	25/03/14, 04/06/14,	25	values < EU	11.3	degrees C	yes	
		Dissolved Oxygen	25/03/14, 04/06/14,		All values < EU	93%, 93%, 96%, 90%		yes	
		Ammonia (as N)	25/03/14, 04/06/14,	0.14	values < EU	0.058, 0.073, 0.025, 0.049	mg/L	yes	
		Chloride	25/03/14, 04/06/14,	250	values < EU	26, 20, 24, 23	mg/L	yes	
		Ortho-phosphate (as PO4)	#####	0.06	values < EU	0.037	mg/L	yes	
		Total Oxidised Nitrogen (TON)	#####		no Abnormal Change	values < EU	2.3	mg/L	yes
		COD	25/03/14, 04/06/14,	40	values < EU	30, 50, 23, 20	mg/L	yes	
		BOD	25/03/14, 04/06/14,	2.6	values < EU	<1.0, 3.6, 1, <1	mg/L	yes	
		Suspended Solids	25/03/14, 04/06/14,	50	values < EU	6, 36, <8, <10	mg/L	yes	
		Fluoride	#####	0.5	values < EU	<0.25	mg/L	yes	
		Sulphate	#####	200	values < EU	14	mg/L	yes	
		Aluminium	#####	200	values < EU	98	µg/L	yes	
		Barium	#####	1000	values < EU	100	µg/L	yes	
		Boron	#####	2000	values < EU	20	µg/L	yes	
		Calcium	#####	N/A	values < EU	75	mg/L	yes	
		Cobalt	#####	N/A	values < EU	<1	µg/L	yes	
		Iron	#####	2000	values < EU	520	µg/L	yes	
		Magnesium	#####	N/A	values < EU	4.7	mg/L	yes	
		Manganese (as Mn)	#####	300	values < EU	110	µg/L	yes	
		Potassium	#####	N/A	values < EU	4.8	mg/L	yes	
		Selenium	#####	10	values < EU	<1	µg/L	yes	
		Sodium	#####	200	values < EU	8.9	mg/L	yes	
		Antimony (as Sb)	#####	5	values < EU	<1	µg/L	yes	
		Molybdenum	#####	N/A	values < EU	<1	µg/L	yes	
		Total heavy metals	#####	Various	values < EU	All less than ELV	µg/L	yes	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)			W0026-03	Lic No:	W0026-03	Year	2014			
S31	downstream		pH	25/03/14, 04/06/14,	6.0 - 9.0	deviate from	7.6, 7.4, 7, 7.2	pH units	yes	
			Conductivity	25/03/14, 04/06/14,	1,000	All values < ELV	598, 396, 784, 606	µS/cm @20oC	yes	
			Temperature	25/03/14, 04/06/14,	25	All values < ELV	11.5	degrees C	yes	
			Dissolved Oxygen	25/03/14, 04/06/14,		All values < ELV	78%, 86%, 78%, 71%		yes	
			Ammonia (as N)	25/03/14, 04/06/14,	0.14	All values < ELV	0.99, 0.62, 2.5, 2.1	mg/L	se enter details in co	Fully engineered cells in area. Breakdown of organics in bog most probably contributing to elevated concentrations
			Chloride	25/03/14, 04/06/14,	250	All values < ELV	58, 17, 18, 29	mg/L	yes	
			Ortho-phosphate (as PO4)	#####	0.06	All values < ELV	<0.01	mg/L	yes	
			Total Oxidised Nitrogen (TON)	#####		No Abnormal Change	<0.2	mg/L	yes	
			COD	25/03/14, 04/06/14, 23/09/14, 04/11/14,	40	All values < ELV	38, 99, 32, 50	mg/L	se enter details in co	Fully engineered cells in area. Breakdown of organics in bog most probably contributing to elevated concentrations
			BOD	25/03/14, 04/06/14, 23/09/14, 04/11/14,	2.6	All values < ELV	<1, <6, 1.7, 2.9	mg/L	se enter details in co	Fully engineered cells in area. Breakdown of organics in bog most probably contributing to elevated concentrations
			Suspended Solids	25/03/14, 04/06/14,	50	All values < ELV	<4, 82, 41, 23	mg/L	yes	
			Fluoride	#####	0.5	All values < ELV	<0.25	mg/L	yes	
			Sulphate	#####	200	All values < ELV	22	mg/L	yes	
			Aluminium	#####	200	All values < ELV	760	µg/L	se enter details in co	digested sediment in sample during analysis may indicate higher concentration
			Barium	#####	1000	All values < ELV	110	µg/L	yes	
			Boron	#####	2000	All values < ELV	12	µg/L	yes	
			Calcium	#####	N/A	All values < ELV	62	mg/L	yes	
			Cobalt	#####	N/A	All values < ELV	1.1	µg/L	yes	
			Iron	#####	2000	All values < ELV	1300	µg/L	yes	
			Magnesium	#####	N/A	All values < ELV	4.8	mg/L	yes	
			Manganese (as Mn)	#####	300	All values < ELV	190	µg/L	yes	
			Potassium	#####	N/A	All values < ELV	1.1	mg/L	yes	
			Selenium	#####	10	All values < ELV	<1	µg/L	yes	
			Sodium	#####	200	All values < ELV	9.9	mg/L	yes	
			Antimony (as Sb)	#####	5	All values < ELV	<1	µg/L	yes	
			Molybdenum	#####	N/A	All values < ELV	<1	µg/L	yes	
			Total heavy metals	#####	Various	All values < ELV	All less than ELV	µg/L	yes	
S30			pH	25/03/14, 04/06/14,	6.0 - 9.0	deviate from	7.3, 7.3, 7.1, 7.1	pH units	yes	
			Conductivity	25/03/14, 04/06/14,	1,000	All values < ELV	598, 365, 488, 800	µS/cm @20oC	yes	
			Temperature	25/03/14, 04/06/14,	25	All values < ELV	11.6	degrees C	yes	
			Dissolved Oxygen	25/03/14, 04/06/14,		All values < ELV	72%, 79%, 62%, 65%		no (if no please enter details in co	Stagnant water
			Ammonia (as N)	25/03/14, 04/06/14,	0.14	All values < ELV	0.94, 0.76, 0.79, 1.4	mg/L	se enter details in co	Fully engineered cells in area. Breakdown of organics in bog most probably contributing to elevated concentrations
			Chloride	25/03/14, 04/06/14,	250	All values < ELV	55, 14, 15, 29	mg/L	yes	
			Ortho-phosphate (as PO4)	#####	0.06	All values < ELV	<0.01	mg/L	yes	
			Total Oxidised Nitrogen (TON)	#####		No Abnormal Change	<0.2	mg/L	yes	
			COD	25/03/14, 04/06/14,	40	All values < ELV	42, 88, 49, 31	mg/L	se enter details in co	Fully engineered cells in area. Breakdown of organics in bog most probably contributing to elevated concentrations
			BOD	25/03/14, 04/06/14,	2.6	All values < ELV	1, <6, 3.2, 1.3	mg/L	se enter details in co	Fully engineered cells in area. Breakdown of organics in bog most probably contributing to elevated concentrations
			Suspended Solids	25/03/14, 04/06/14,	50	All values < ELV	7, 97, 25, <10	mg/L	yes	
			Fluoride	#####	0.5	All values < ELV	<0.25	mg/L	yes	
			Sulphate	#####	200	All values < ELV	18	mg/L	yes	
			Aluminium	#####	200	All values < ELV	740	µg/L	se enter details in co	digested sediment in sample during analysis may indicate higher concentration
			Barium	#####	1000	All values < ELV	130	µg/L	yes	
			Boron	#####	2000	All values < ELV	12	µg/L	yes	
			Calcium	#####	N/A	All values < ELV	58	mg/L	yes	
			Cobalt	#####	N/A	All values < ELV	1.1	µg/L	yes	
			Iron	#####	2000	All values < ELV	1300	µg/L	yes	
			Magnesium	#####	N/A	All values < ELV	4	mg/L	yes	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)									
			W0026-03	Lic No:	W0026-03	Year			2014
			Manganese (as Mn)	#####	300	values < EL	190	µg/L	yes
			Potassium	#####	N/A	values < EL	0.97	mg/L	yes
			Selenium	#####	10	values < EL	<1	µg/L	yes
			Sodium	#####	200	values < EL	7.9	mg/L	yes
			Antimony (as Sb)	#####	5	values < EL	<1	µg/L	yes
			Molybdenum	#####	N/A	values < EL	<1	µg/L	yes
			Total heavy metals	#####	Various	values < EL	All less than ELV	µg/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
			SELECT		
			SELECT		

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

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

Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box

No	Additional information
Yes	Monitoring Completed by EPA Personnel

[External /Internal Lab Quality checklist](#) [Assessment of results checklist](#)

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	trigger values in licence or any revision	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference standard number
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	

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

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

Continuous monitoring

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

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

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

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

No	
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7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

No	
----	--

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

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
	SELECT	SELECT		SELECT	SELECT	SELECT					
	SELECT	SELECT		SELECT	SELECT	SELECT					

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund testing

dropdown menu click to see options

Additional information

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

Yes	
3 years	as per condition 3.11.5
Yes	
6	
All	Tested in 2012
1	Paint Bund in CA Site
No	Bunds Regularly Changed
N/A	
N/A	
No	
N/A	
N/A	

- 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" 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?
- 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?
- 13 Is the Fire Water Retention Pond included in your integrity test programme?

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

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Scheduled date for retest	Results of retest(if in current reporting year)
Lined Leachate Lagoon	HDPE Liner		Leachate			Hydraulic test	Completed from level sensor readings	2011	Yes	Pass		2015	
Leachate Storage Tank	other (please specify)		Leachate			Structural analysis	Level Sensor	2012	Yes	Pass		2015	
Oil Storage Tank	reinforced concrete		Waste Oil			Hydraulic test	Hydraulic Test - Water Level Test	2012	Yes	Pass		2015	

* 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 [bundings and storage guidelines](#)

- 15 BS8007/EPA Guidance?
- 16 Are channels/transfer systems to remote containment systems tested?
- 17 Are channels/transfer systems compliant in both integrity and available volume?

Commentary	
Yes	
No	
N/A	

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**

- 1 as specified
 - 2 Please provide integrity testing frequency period
- *please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

No	
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

Bund/Pipeline testing template	W0026-03	W0026-03	Year	2014	
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Groundwater/Soil monitoring template	W0026-03	W0026-03	Year	2014
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		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	no	Results are consistent with historic analysis data.
5	Is the contamination related to operations at the facility (either current and/or historic)	N/A	
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	N/A	
7	Please specify the proposed time frame for the remediation strategy	N/A	
8	Is there a licence condition to carry out/update ELRA for the site?	yes	Condition 12.2.2
9	Has any type of risk assesment been carried out for the site?	yes	Completed Groundwater Screening Assessment in 2013
10	Has a Conceptual Site Model been developed for the site?	yes	Completed as part of Groundwater Screening Assessment in 2013
11	Have potential receptors been identified on and off site?	yes	Included in Groundwater Screening Assessment in 2013
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

The results for groundwater sampling completed by the Agency in 2014 indicated that the concentrations of contaminants of concern are consistent with historic analysis results for the site. The results indicated that a number of paramaters (e.g., ammonia, aluminium, iron, manganese, barium and nickel) in some down gradient wells in the south of the site exceeded the appropriate IGV or DWS. However, these parameters are also elevated in the area background well (G4). Similarly, a number of parameters that were greater than the IGV and/or the Drinking Water Standrads at down gradient wells in the north of the site were also elevated in the background well in that area of the site (G14). All List I/II organic substances were less than the laboratory method detection limit and the majority of List I/II inorganic substance concentrations were less than the appropriate IGV and/or DWS. The results for 2014 indicated no increasing trend in groundwater parameters on site.

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	DWS	Upward trend in pollutant concentration over last 5 years of monitoring data
30/01/2014, 04/06/2014, 26/08/2014, 04/11/2014	G4	pH	Purged Sample	Quarterly	7.4	7.1	pH Units	N/A	6.5-9.0	no
as above	G4	Temp	Purged Sample	Quarterly	11.7	10.7		N/A	25	no
as above	G4	DO	Purged Sample	Quarterly	30	21		N/A		no
as above	G4	Conductivity	Purged Sample	Quarterly	626	604	uS/cm	1,875	1,500	no
as above	G4	Ammonia	Purged Sample	Quarterly	5	3.9	mg/l	0.175	0.3	no
as above	G4	Chloride	Purged Sample	Quarterly	32	17	mg/l	187.5	250	no
as above	G4	TOC	Purged Sample	Quarterly	12.4	7.3	mg/l	N/A	No Abnormal Change	no
04/06/2014	G4	Coliforms	Purged Sample	Annual	<10	<10	CFU	N/A	0	no
04/06/2014	G4	Ortho-P	Purged Sample	Annual	<0.01	<0.01	mg/l	0.035	1	no
04/06/2014	G4	TON	Purged Sample	Annual	<0.2	<0.2	mg/l	Abnormal Cha	200	no
04/06/2014	G4	Alkalinity	Purged Sample	Annual	303	303	mg/l	N/A	200	no
04/06/2014	G4	Fluoride	Purged Sample	Annual	1	1	mg/l	1	50	no

Groundwater/Soil monitoring template				W0026-03	W0026-03	Year	2014			
04/06/2014	G4	Sulphate	Purged Sample	Annual	<2.5	<2.5	mg/l	187.5	250	no
04/06/2014	G4	Aluminium	Purged Sample	Annual	1,900	1,900	ug/l	150	200	no
04/06/2014	G4	Arsenic	Purged Sample	Annual	12	12	ug/l	7.5	10	no
04/06/2014	G4	Barium	Purged Sample	Annual	1,100	1,100	ug/l	N/A	N/A	no
04/06/2014	G4	Beryllium	Purged Sample	Annual	<1	<2	ug/l	N/A	N/A	no
04/06/2014	G4	Boron	Purged Sample	Annual	31	31	ug/l	750	1000	no
04/06/2014	G4	Cadmium	Purged Sample	Annual	0.07	0	ug/l	3.8	5	no
04/06/2014	G4	Calcium	Purged Sample	Annual	91	91	ug/l	N/A	200	no
04/06/2014	G4	Cobalt	Purged Sample	Annual	1	1	ug/l	N/A	N/A	no
04/06/2014	G4	Iron	Purged Sample	Annual	6,800	6,800	ug/l	200	200	no
04/06/2014	G4	Lead	Purged Sample	Annual	2	2	ug/l	18.8	10	no
04/06/2014	G4	Magnesium	Purged Sample	Annual	9	9	mg/l	50	50	no
04/06/2014	G4	Manganese	Purged Sample	Annual	230	230	ug/l	50	50	no
04/06/2014	G4	Nickel	Purged Sample	Annual	4	4	ug/l	15	20	no
04/06/2014	G4	Potassium	Purged Sample	Annual	2	2	mg/l	5	12	no
04/06/2014	G4	Selenium	Purged Sample	Annual	<1	<2	ug/l	N/A	N/A	no
04/06/2014	G4	Sodium	Purged Sample	Annual	9	9	mg/l	150	150	no
04/06/2014	G4	Strontium	Purged Sample	Annual	870	870	ug/l	N/A	N/A	no
04/06/2014	G4	Thallium	Purged Sample	Annual	<1	<1	ug/l	N/A	N/A	no
04/06/2014	G4	Uranium	Purged Sample	Annual	<1	<1	ug/l	9	9	no
04/06/2014	G4	Vanadium	Purged Sample	Annual	3	4	ug/l	N/A	N/A	no
04/06/2014	G4	Mercury	Purged Sample	Annual	<0.5	<0.6	ug/l	0.8	1	no
04/06/2014	G4	Antimony	Purged Sample	Annual	<1	<2	ug/l	N/A	N/A	no
04/06/2014	G4	Chromium	Purged Sample	Annual	2.5	2.5	ug/l	37.5	50	no
04/06/2014	G4	Copper	Purged Sample	Annual	1.7	1.7	ug/l	1500	2000	no
04/06/2014	G4	Molybdenum	Purged Sample	Annual	3.2	3.2	ug/l	N/A	N/A	no
04/06/2014	G4	Zinc	Purged Sample	Annual	17.0	17.0	ug/l	100	5000	no
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	DWS	Upward trend in pollutant concentration over last 5 years of monitoring data
30/01/2014, 04/06/2014, 26/08/2014, 04/11/2014	G14	pH	Purged Sample	Quarterly	8	7.6	pH Units	6.5-9.1	6.5-9.0	no
as above	G14	Temp	Purged Sample	Quarterly	12	10.7		N/A	25	no
as above	G14	DO	Purged Sample	Quarterly	82	37		N/A		no
as above	G14	Conductivity	Purged Sample	Quarterly	617	538	uS/cm	1,875	1,500	no
as above	G14	Ammonia	Purged Sample	Quarterly	1.9	1.58	mg/l	0.175	0.3	no
as above	G14	Chloride	Purged Sample	Quarterly	41	30.2	mg/l	187.5	250	no
as above	G14	TOC	Purged Sample	Quarterly	7.2	3.9		N/A	No Abnormal Change	no
04/06/2014	G14	Coliforms	Purged Sample	Annual	<10	<10	CFU	N/A	0	no
04/06/2014	G14	Ortho-P	Purged Sample	Annual	<0.01	<0.01	ug/l	0.035	1	no
04/06/2014	G14	TON	Purged Sample	Annual	<0.2	<0.2	ug/l	Abnormal Change	200	no
04/06/2014	G14	Alkalinity	Purged Sample	Annual	170	170	ug/l	N/A	200	no
04/06/2014	G14	Fluoride	Purged Sample	Annual	1	1	ug/l	1	50	no
04/06/2014	G14	Sulphate	Purged Sample	Annual	47	47	ug/l	187.5	250	no
04/06/2014	G14	Aluminium	Purged Sample	Annual	1,200	1,200	ug/l	150	200	no
04/06/2014	G14	Arsenic	Purged Sample	Annual	<1	<2	ug/l	7.5	10	no

Groundwater/Soil monitoring template				W0026-03	W0026-03	Year		2014		
04/06/2014	G14	Barium	Purged Sample	Annual	290	291	ug/l	N/A	N/A	no
04/06/2014	G14	Beryllium	Purged Sample	Annual	<1	<2	ug/l	N/A	N/A	no
04/06/2014	G14	Boron	Purged Sample	Annual	120	120	ug/l	750	1000	no
04/06/2014	G14	Cadmium	Purged Sample	Annual	0.02	0.02	ug/l	3.8	5	no
04/06/2014	G14	Calcium	Purged Sample	Annual	31	31	mg/l	N/A	200	no
04/06/2014	G14	Cobalt	Purged Sample	Annual	<1	<2	ug/l	N/A	N/A	no
04/06/2014	G14	Iron	Purged Sample	Annual	1,700	1,701	ug/l	200	200	no
04/06/2014	G14	Lead	Purged Sample	Annual	<1	<2	ug/l	18.8	10	no
04/06/2014	G14	Magnesium	Purged Sample	Annual	8	8	mg/l	50	50	no
04/06/2014	G14	Manganese	Purged Sample	Annual	130	130	ug/l	50	50	no
04/06/2014	G14	Nickel	Purged Sample	Annual	3	3	ug/l	15	20	no
04/06/2014	G14	Potassium	Purged Sample	Annual	3	3	mg/l	5	12	no
04/06/2014	G14	Selenium	Purged Sample	Annual	<1	<2	ug/l	N/A	N/A	no
04/06/2014	G14	Sodium	Purged Sample	Annual	48	48	mg/l	150	150	no
04/06/2014	G14	Strontium	Purged Sample	Annual	730	730	ug/l	N/A	N/A	no
04/06/2014	G14	Thallium	Purged Sample	Annual	<1	<1	ug/l	N/A	N/A	no
04/06/2014	G14	Uranium	Purged Sample	Annual	<1	<1	ug/l	9	9	no
04/06/2014	G14	Vanadium	Purged Sample	Annual	3	4	ug/l	N/A	N/A	no
04/06/2014	G14	Mercury	Purged Sample	Annual	<0.5	<0.6	ug/l	0.8	1	no
04/06/2014	G14	Antimony	Purged Sample	Annual	<1	<2	ug/l	N/A	N/A	no
04/06/2014	G14	Chromium	Purged Sample	Annual	1.9	1.9	ug/l	37.5	50	no
04/06/2014	G14	Copper	Purged Sample	Annual	1.7	1.7	ug/l	1500	2000	no
04/06/2014	G14	Molybdenum	Purged Sample	Annual	10.0	10.0	ug/l	N/A	N/A	no
04/06/2014	G14	Zinc	Purged Sample	Annual	110.0	110.0	ug/l	5000	5000	no

.+ where average indicates arithmetic mean

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

Date of sampling	Sample location reference	Parameter/Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	DWS	Upward trend in pollutant concentration over last 5 years of monitoring data
30/01/2014, 04/06/2014, 26/08/2014, 04/11/2014	Wheelans Deep	pH	Purged Sample	Annual	7.4	7.4	pH Units	N/A	6.5-9.0	no
as above	Wheelans Deep	Temp	Purged Sample	Annual	12.8	12.8	degrees C		25	no
as above	Wheelans Deep	DO	Purged Sample	Annual	64	64	% Sat			no
as above	Wheelans Deep	Conductivity	Purged Sample	Annual	620	620	uS/cm	1,875	1,500	no
as above	Wheelans Deep	Ammonia	Purged Sample	Annual	0.29	0.29	mg/l	0.175	0.3	no
as above	Wheelans Deep	Chloride	Purged Sample	Annual	17	17	mg/l	187.5	250	no
as above	Wheelans Deep	TOC	Purged Sample	Annual	<1	<2	mg/l	N/A	No Abnormal Change	no
04/06/2014	Wheelans Deep	Coliforms	Purged Sample	Annual	<10	<10	CFU	N/A	0	no
04/06/2014	Wheelans Deep	Ortho-P	Purged Sample	Annual	<0.01	<0.01	ug/l	N/A	1	no
04/06/2014	Wheelans Deep	TON	Purged Sample	Annual	<0.2	<0.2	ug/l	150	200	no
04/06/2014	Wheelans Deep	Alkalinity	Purged Sample	Annual	281	281	ug/l	N/A	200	no
04/06/2014	Wheelans Deep	Fluoride	Purged Sample	Annual	2	2	ug/l	N/A	50	no
04/06/2014	Wheelans Deep	Sulphate	Purged Sample	Annual	28	28	ug/l		250	no
04/06/2014	Wheelans Deep	Aluminium	Purged Sample	Annual	<10	<10	ug/l		200	no
04/06/2014	Wheelans Deep	Arsenic	Purged Sample	Annual	<1	<1	ug/l		10	no
04/06/2014	Wheelans Deep	Barium	Purged Sample	Annual	80	80	ug/l		N/A	no
04/06/2014	Wheelans Deep	Beryllium	Purged Sample	Annual	<1	<1	ug/l		N/A	no

Groundwater/Soil monitoring template				W0026-03	W0026-03	Year	2014		
04/06/2014	Wheelans Deep	Boron	Purged Sample	Annual	280	280	ug/l	1000	no
04/06/2014	Wheelans Deep	Cadmium	Purged Sample	Annual	<0.02	<0.02	ug/l	5	no
04/06/2014	Wheelans Deep	Calcium	Purged Sample	Annual	43	43	ug/l	200	no
04/06/2014	Wheelans Deep	Cobalt	Purged Sample	Annual	<1	<1	ug/l	N/A	no
04/06/2014	Wheelans Deep	Iron	Purged Sample	Annual	100	100	ug/l	200	no
04/06/2014	Wheelans Deep	Lead	Purged Sample	Annual	<1	<1	ug/l	10	no
04/06/2014	Wheelans Deep	Magnesium	Purged Sample	Annual	36	36	mg/l	50	no
04/06/2014	Wheelans Deep	Manganese	Purged Sample	Annual	11	11	ug/l	50	no
04/06/2014	Wheelans Deep	Nickel	Purged Sample	Annual	<1	<1	ug/l	20	no
04/06/2014	Wheelans Deep	Potassium	Purged Sample	Annual	2	2	mg/l	12	no
04/06/2014	Wheelans Deep	Selenium	Purged Sample	Annual	<1	<1	ug/l	N/A	no
04/06/2014	Wheelans Deep	Sodium	Purged Sample	Annual	24	24	mg/l	150	no
04/06/2014	Wheelans Deep	Strontium	Purged Sample	Annual	10,000	10,000	ug/l	N/A	no
04/06/2014	Wheelans Deep	Thallium	Purged Sample	Annual	<1	<1	ug/l	N/A	no
04/06/2014	Wheelans Deep	Uranium	Purged Sample	Annual	<1	<1	ug/l	9	no
04/06/2014	Wheelans Deep	Vanadium	Purged Sample	Annual	<1	<1	ug/l	N/A	no
04/06/2014	Wheelans Deep	Mercury	Purged Sample	Annual	<0.5	<0.5	ug/l	1	no
04/06/2014	Wheelans Deep	Antimony	Purged Sample	Annual	<1	<1	ug/l	N/A	no
04/06/2014	Wheelans Deep	Chromium	Purged Sample	Annual	<1	<1	ug/l	50	no
04/06/2014	Wheelans Deep	Copper	Purged Sample	Annual	8.7	8.7	ug/l	2000	no
04/06/2014	Wheelans Deep	Molybdenum	Purged Sample	Annual	<1	<1	ug/l	N/A	no
04/06/2014	Wheelans Deep	Zinc	Purged Sample	Annual	15.0	15.0	ug/l	5000	no

.+ where average indicates arithmetic mean

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

Date of sampling	Sample location reference	Parameter/Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	DWS	Upward trend in pollutant concentration over last 5 years of monitoring data
30/01/2014, 04/06/2014, 26/08/2014, 04/11/2014	Wheelans Shallow	pH	Purged Sample	Annual	7.2	7.2	pH Units	N/A	6.5-9.0	no
as above	Wheelans Shallow	Temp	Purged Sample	Annual	10.5	10.5	degrees C		25	no
as above	Wheelans Shallow	DO	Purged Sample	Annual	23	23	% Sat			no
as above	Wheelans Shallow	Conductivity	Purged Sample	Annual	788	788	uS/cm	1,875	1,500	no
as above	Wheelans Shallow	Ammonia	Purged Sample	Annual	0.031	0.031	mg/l	0.175	0.3	no
as above	Wheelans Shallow	Chloride	Purged Sample	Annual	29	29	mg/l	187.5	250	no
as above	Wheelans Shallow	TOC	Purged Sample	Annual	2.9	2.9	mg/l	N/A	No Abnormal Change	no
04/06/2014	Wheelans Shallow	Coliforms	Purged Sample	Annual	<10	<10	CFU	N/A	0	no
04/06/2014	Wheelans Shallow	Ortho-P	Purged Sample	Annual	<0.01	<0.01	ug/l	N/A	1	no
04/06/2014	Wheelans Shallow	TON	Purged Sample	Annual	3.2	3.2	ug/l	150	200	no
04/06/2014	Wheelans Shallow	Alkalinity	Purged Sample	Annual	354	354	ug/l	N/A	200	no
04/06/2014	Wheelans Shallow	Fluoride	Purged Sample	Annual	<0.25	<0.25	ug/l	N/A	50	no
04/06/2014	Wheelans Shallow	Sulphate	Purged Sample	Annual	13	13	ug/l		250	no
04/06/2014	Wheelans Shallow	Aluminium	Purged Sample	Annual	<10	<10	ug/l		200	no
04/06/2014	Wheelans Shallow	Arsenic	Purged Sample	Annual	<1	<1	ug/l		10	no
04/06/2014	Wheelans Shallow	Barium	Purged Sample	Annual	150	150	ug/l		N/A	no
04/06/2014	Wheelans Shallow	Beryllium	Purged Sample	Annual	<1	<1	ug/l		N/A	no
04/06/2014	Wheelans Shallow	Boron	Purged Sample	Annual	32	32	ug/l		1000	no
04/06/2014	Wheelans Shallow	Cadmium	Purged Sample	Annual	0.53	0.53	ug/l		5	no
04/06/2014	Wheelans Shallow	Calcium	Purged Sample	Annual	130	130	ug/l		200	no

Groundwater/Soil monitoring template				W0026-03	W0026-03	Year	2014		
04/06/2014	Wheelans Shallow	Cobalt	Purged Sample	Annual	<1	<1	ug/l	N/A	no
04/06/2014	Wheelans Shallow	Iron	Purged Sample	Annual	520	520	ug/l	200	no
04/06/2014	Wheelans Shallow	Lead	Purged Sample	Annual	3.8	3.8	ug/l	10	no
04/06/2014	Wheelans Shallow	Magnesium	Purged Sample	Annual	7.4	7.4	mg/l	50	no
04/06/2014	Wheelans Shallow	Manganese	Purged Sample	Annual	140	140	ug/l	50	no
04/06/2014	Wheelans Shallow	Nickel	Purged Sample	Annual	2.8	2.8	ug/l	20	no
04/06/2014	Wheelans Shallow	Potassium	Purged Sample	Annual	6.6	6.6	mg/l	12	no
04/06/2014	Wheelans Shallow	Selenium	Purged Sample	Annual	<1	<1	ug/l	N/A	no
04/06/2014	Wheelans Shallow	Sodium	Purged Sample	Annual	6.6	6.6	mg/l	150	no
04/06/2014	Wheelans Shallow	Strontium	Purged Sample	Annual	640	640	ug/l	N/A	no
04/06/2014	Wheelans Shallow	Thallium	Purged Sample	Annual	<1	<1	ug/l	N/A	no
04/06/2014	Wheelans Shallow	Uranium	Purged Sample	Annual	<1	<1	ug/l	9	no
04/06/2014	Wheelans Shallow	Vanadium	Purged Sample	Annual	<1	<1	ug/l	N/A	no
04/06/2014	Wheelans Shallow	Mercury	Purged Sample	Annual	<0.5	<0.5	ug/l	1	no
04/06/2014	Wheelans Shallow	Antimony	Purged Sample	Annual	<1	<1	ug/l	N/A	no
04/06/2014	Wheelans Shallow	Chromium	Purged Sample	Annual	4.5	4.5	ug/l	50	no
04/06/2014	Wheelans Shallow	Copper	Purged Sample	Annual	52.0	52.0	ug/l	2000	no
04/06/2014	Wheelans Shallow	Molybdenum	Purged Sample	Annual	<1	<1	ug/l	N/A	no
04/06/2014	Wheelans Shallow	Zinc	Purged Sample	Annual	850.0	850.0	ug/l	5000	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*	DWS	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
30/01/2014, 04/06/2014, 26/08/2014, 04/11/2014	G2	pH	Purged Sample	Quarterly	7.3	7.4	pH Units	6.5-9.1		no
as above	G2	Temp	Purged Sample	Quarterly	10.5	10.3	degrees C	N/A		no
as above	G2	DO	Purged Sample	Quarterly	47	42.2	% Sat	N/A		no
as above	G2	Conductivity	Purged Sample	Quarterly	465	467	uS/cm	1,875		no
as above	G2	Ammonia	Purged Sample	Quarterly	0.32	0.56	mg/l	0.175		no
as above	G2	Chloride	Purged Sample	Quarterly	11	11	mg/l	187.5		no
as above	G2	TOC	Purged Sample	Quarterly	3.1	3.8	mg/l	N/A	0	no
04/06/2014	G2	Coliforms	Purged Sample	Annual	<10	<10	CFU	N/A		no
04/06/2014	G2	Ortho-P	Purged Sample	Annual	<0.01	<0.01	ug/l	0.035		no
04/06/2014	G2	TON	Purged Sample	Annual	<0.2	<0.2	ug/l	Abnormal Change		no
04/06/2014	G2	Alkalinity	Purged Sample	Annual	241	241	ug/l	N/A		no
04/06/2014	G2	Fluoride	Purged Sample	Annual	1	1	ug/l	1		no
04/06/2014	G2	Sulphate	Purged Sample	Annual	<2.5	<2.6	ug/l	187.5		no
04/06/2014	G2	Aluminium	Purged Sample	Annual	6,000	6,000	ug/l	150		no
04/06/2014	G2	Arsenic	Purged Sample	Annual	3	3	ug/l	7.5		no
04/06/2014	G2	Barium	Purged Sample	Annual	130	130	ug/l	N/A		no
04/06/2014	G2	Beryllium	Purged Sample	Annual	<1	<2	ug/l	N/A		no
04/06/2014	G2	Boron	Purged Sample	Annual	61	61	ug/l	750		no
04/06/2014	G2	Cadmium	Purged Sample	Annual	0.25	0.25	ug/l	3.8		no

Groundwater/Soil monitoring template				W0026-03	W0026-03	Year	2014			
04/06/2014	G2	Calcium	Purged Sample	Annual	53	53	ug/l	N/A	no	
04/06/2014	G2	Cobalt	Purged Sample	Annual	3	3	ug/l	N/A	no	
04/06/2014	G2	Iron	Purged Sample	Annual	4,100	4,100	ug/l	200	no	
04/06/2014	G2	Lead	Purged Sample	Annual	4.7	4.7	ug/l	18.8	no	
04/06/2014	G2	Magnesium	Purged Sample	Annual	12.0	12.0	mg/l	50	no	
04/06/2014	G2	Manganese	Purged Sample	Annual	210	210	ug/l	50	no	
04/06/2014	G2	Nickel	Purged Sample	Annual	11.0	11.0	ug/l	15	no	
04/06/2014	G2	Potassium	Purged Sample	Annual	2.9	2.9	mg/l	5	no	
04/06/2014	G2	Selenium	Purged Sample	Annual	<1	<2	ug/l	N/A	no	
04/06/2014	G2	Sodium	Purged Sample	Annual	31.0	31.0	mg/l	150	no	
04/06/2014	G2	Strontium	Purged Sample	Annual	800	800	ug/l	N/A	no	
04/06/2014	G2	Thallium	Purged Sample	Annual	<1	<1	ug/l	N/A	no	
04/06/2014	G2	Uranium	Purged Sample	Annual	<1	<1	ug/l	9	no	
04/06/2014	G2	Vanadium	Purged Sample	Annual	11	12	ug/l	N/A	no	
04/06/2014	G2	Mercury	Purged Sample	Annual	<0.5	<0.6	ug/l	0.8	no	
04/06/2014	G2	Antimony	Purged Sample	Annual	<1	<2	ug/l	N/A	no	
04/06/2014	G2	Chromium	Purged Sample	Annual	8.5	8.5	ug/l	37.5	no	
04/06/2014	G2	Copper	Purged Sample	Annual	5.0	5.0	ug/l	1500	no	
04/06/2014	G2	Molybdenum	Purged Sample	Annual	4.5	4.5	ug/l	N/A	no	
04/06/2014	G2	Zinc	Purged Sample	Annual	28.0	28.0	ug/l	5000	no	
04/06/2014	G2	Other List I/II Inorganics	Purged Sample	Annual	< Laboratory Method Detection Method	< Laboratory Method Detection Method	ug/l			< Applicable IGV and/or GTV
Date of sampling	Sample location reference	Parameter/Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	DWS	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
30/01/2014, 04/06/2014, 26/08/2014, 04/11/2014	G12	pH	Purged Sample	Quarterly	7.3	7.1	pH Units	6.5-9.1	6.5-9.0	no
as above	G12	Temp	Purged Sample	Quarterly	11.3	10.7	degrees C	N/A	1,500	no
as above	G12	DO	Purged Sample	Quarterly	44	30	% Sat	N/A	0.3	no
as above	G12	Conductivity	Purged Sample	Quarterly	651	639	uS/cm	1,875	250	no
as above	G12	Ammonia	Purged Sample	Quarterly	3.2	3	mg/l	0.175	No Abnormal Change	no
as above	G12	Chloride	Purged Sample	Quarterly	28	27	mg/l	187.5	0	no
as above	G12	TOC	Purged Sample	Quarterly	5.6	5	mg/l	N/A	1	no
04/06/2014	G12	Coliforms	Purged Sample	Annual	<10	<10	CFU	0	0	no
04/06/2014	G12	Ortho-P	Purged Sample	Annual	<0.01	<0.01	ug/l	0.035	200	no
04/06/2014	G12	TON	Purged Sample	Annual	<0.2	<0.2	ug/l	Abnormal Cha	500	no
04/06/2014	G12	Alkalinity	Purged Sample	Annual	349	349	ug/l	N/A		no
04/06/2014	G12	Fluoride	Purged Sample	Annual	0.63	0.63	ug/l	1		no
04/06/2014	G12	Sulphate	Purged Sample	Annual	5.8	5.8	ug/l	187.5		no
04/06/2014	G12	Aluminium	Purged Sample	Annual	2,000	2,000	ug/l	150		no
04/06/2014	G12	Arsenic	Purged Sample	Annual	6	6	ug/l	7.5		no
04/06/2014	G12	Barium	Purged Sample	Annual	1,400	1,400	ug/l	N/A		no
04/06/2014	G12	Beryllium	Purged Sample	Annual	<1	<1	ug/l	N/A		no
04/06/2014	G12	Boron	Purged Sample	Annual	59	59	ug/l	750		no
04/06/2014	G12	Cadmium	Purged Sample	Annual	0.06	0.06	ug/l	3.8		no

Groundwater/Soil monitoring template				W0026-03	W0026-03	Year	2014			
04/06/2014	G12	Calcium	Purged Sample	Annual	80	80	ug/l	N/A		no
04/06/2014	G12	Cobalt	Purged Sample	Annual	<1	<1	ug/l	N/A		no
04/06/2014	G12	Iron	Purged Sample	Annual	2,400	2,400	ug/l	200		no
04/06/2014	G12	Lead	Purged Sample	Annual	1.6	1.6	ug/l	18.8		no
04/06/2014	G12	Magnesium	Purged Sample	Annual	16.0	16.0	mg/l	50		no
04/06/2014	G12	Manganese	Purged Sample	Annual	460	460	ug/l	50		no
04/06/2014	G12	Nickel	Purged Sample	Annual	2.6	2.6	ug/l	15		no
04/06/2014	G12	Potassium	Purged Sample	Annual	2.7	2.7	mg/l	5		no
04/06/2014	G12	Selenium	Purged Sample	Annual	<1	<1	ug/l	N/A		no
04/06/2014	G12	Sodium	Purged Sample	Annual	16.0	16.0	mg/l	150		no
04/06/2014	G12	Strontium	Purged Sample	Annual	1,300	1,300	ug/l	N/A		no
04/06/2014	G12	Thallium	Purged Sample	Annual	<1	<1	ug/l	N/A		no
04/06/2014	G12	Uranium	Purged Sample	Annual	1	1	ug/l	9		no
04/06/2014	G12	Vanadium	Purged Sample	Annual	2	2	ug/l	N/A		no
04/06/2014	G12	Mercury	Purged Sample	Annual	<0.5	<0.5	ug/l	0.8		no
04/06/2014	G12	Antimony	Purged Sample	Annual	<1	<1	ug/l	N/A		no
04/06/2014	G12	Chromium	Purged Sample	Annual	2.1	2.1	ug/l	37.5		no
04/06/2014	G12	Copper	Purged Sample	Annual	1.6	1.6	ug/l	1500		no
04/06/2014	G12	Molybdenum	Purged Sample	Annual	<1	<1	ug/l	N/A		no
04/06/2014	G12	Zinc	Purged Sample	Annual	17.0	17.0	ug/l	5000		no
							ug/l			
						Average Concentration	unit	GTV's*	DWS	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
30/01/2014, 04/06/2014, 26/08/2014, 04/11/2014	G1	pH	Purged Sample	Quarterly	7.5	7.2	pH Units	6.5-9.1	6.5-9.0	no
as above	G1	Temp	Purged Sample	Quarterly	13.1	10.9	degrees C	N/A	1,500	no
as above	G1	DO	Purged Sample	Quarterly	68	48	% Sat	N/A	0.3	no
as above	G1	Conductivity	Purged Sample	Quarterly	1,073	1068	uS/cm	1,875	250	no
as above	G1	Ammonia	Purged Sample	Quarterly	1.7	1.4	mg/l	0.175	No Abnormal Change	no
as above	G1	Chloride	Purged Sample	Quarterly	67	63	mg/l	187.5	0	no
as above	G1	TOC	Purged Sample	Quarterly	9.7	7.2	mg/l	N/A	1	no
04/06/2014	G1	Coliforms	Purged Sample	Annual	5500	5500	CFU	N/A		no
04/06/2014	G1	Ortho-P	Purged Sample	Annual	<0.01	<0.01	ug/l	0.035	200	no
04/06/2014	G1	TON	Purged Sample	Annual	0.25	0.25	ug/l	Abnormal Cha	500	no
04/06/2014	G1	Alkalinity	Purged Sample	Annual	463	463	ug/l	N/A		no
04/06/2014	G1	Fluoride	Purged Sample	Annual	0.73	0.73	ug/l	1		no
04/06/2014	G1	Sulphate	Purged Sample	Annual	40.0	40.0	mg/l	187.5		no
04/06/2014	G1	Aluminium	Purged Sample	Annual	2,300	2,300	ug/l	150		no
04/06/2014	G1	Arsenic	Purged Sample	Annual	<1	<1	ug/l	7.5		no
04/06/2014	G1	Barium	Purged Sample	Annual	360	360	ug/l	N/A		no
04/06/2014	G1	Beryllium	Purged Sample	Annual	<1	<1	ug/l	N/A		no
04/06/2014	G1	Boron	Purged Sample	Annual	200	200	ug/l	750		no
04/06/2014	G1	Cadmium	Purged Sample	Annual	0.06	0.06	ug/l	3.8		no
04/06/2014	G1	Calcium	Purged Sample	Annual	97	97	mg/l	N/A		no
04/06/2014	G1	Cobalt	Purged Sample	Annual	1	1	ug/l	N/A		no

Groundwater/Soil monitoring template				W0026-03	W0026-03	Year	2014				
04/06/2014	G1	Iron	Purged Sample	Annual	1,400	1,400	ug/l	200		no	
04/06/2014	G1	Lead	Purged Sample	Annual	1.2	1.2	ug/l	18.8		no	
04/06/2014	G1	Magnesium	Purged Sample	Annual	52.0	52.0	mg/l	50		no	
04/06/2014	G1	Manganese	Purged Sample	Annual	180	180	ug/l	50		no	
04/06/2014	G1	Nickel	Purged Sample	Annual	6.8	6.8	ug/l	15		no	
04/06/2014	G1	Potassium	Purged Sample	Annual	4.5	4.5	mg/l	5		no	
04/06/2014	G1	Selenium	Purged Sample	Annual	<1	<1	ug/l	N/A		no	
04/06/2014	G1	Sodium	Purged Sample	Annual	44.0	44.0	mg/l	150		no	
04/06/2014	G1	Strontium	Purged Sample	Annual	9,300	9,300	ug/l	N/A		no	
04/06/2014	G1	Thallium	Purged Sample	Annual	<1	<1	ug/l	N/A		no	
04/06/2014	G1	Uranium	Purged Sample	Annual	<1	<1	ug/l	9		no	
04/06/2014	G1	Vanadium	Purged Sample	Annual	4	4	ug/l	N/A		no	
04/06/2014	G1	Mercury	Purged Sample	Annual	<0.5	<0.5	ug/l	0.8		no	
04/06/2014	G1	Antimony	Purged Sample	Annual	<1	<1	ug/l	N/A		no	
04/06/2014	G1	Chromium	Purged Sample	Annual	3.4	3.4	ug/l	37.5		no	
04/06/2014	G1	Copper	Purged Sample	Annual	2.7	2.7	ug/l	1500		no	
04/06/2014	G1	Molybdenum	Purged Sample	Annual	<1	<1	ug/l	N/A		no	
04/06/2014	G1	Zinc	Purged Sample	Annual	14.0	14.0	ug/l	5000		no	
04/06/2014	G1	All Other List I/II Organics and Inorganics	Purged Sample	Annual	< Laboratory Method Detection Method	< Laboratory Method Detection Method	ug/l			no	< Applicable IGW and/or GTV
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	DWS	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data	
30/01/2014, 04/06/2014, 26/08/2014, 04/11/2014	G13	pH	Purged Sample	Quarterly	6.8	6.6	pH Units	6.5-9.1	6.5-9.0	no	
as above	G13	Temp	Purged Sample	Quarterly	11.4	10.8	degrees C	N/A	1,500	no	
as above	G13	DO	Purged Sample	Quarterly	34	26	% Sat	N/A	0.3	no	
as above	G13	Conductivity	Purged Sample	Quarterly	1,149	1074	uS/cm	1,875	250	no	
as above	G13	Ammonia	Purged Sample	Quarterly	4	3.9	mg/l	0.175	No Abnormal Change	no	
as above	G13	Chloride	Purged Sample	Quarterly	17	15.5	mg/l	187.5	0	no	
as above	G13	TOC	Purged Sample	Quarterly	14.8	13	mg/l	N/A	1	no	
04/06/2014	G13	Coliforms	Purged Sample	Annual	<10	<10	CFU	N/A		no	
04/06/2014	G13	Ortho-P	Purged Sample	Annual	<0.01	<0.01	ug/l	0.035	200	no	
04/06/2014	G13	TON	Purged Sample	Annual	<0.2	<0.2	ug/l	Abnormal Change	500	no	
04/06/2014	G13	Alkalinity	Purged Sample	Annual	533	533	ug/l	N/A		no	
04/06/2014	G13	Fluoride	Purged Sample	Annual	<0.5	<0.5	ug/l	1		no	
04/06/2014	G13	Sulphate	Purged Sample	Annual	21.0	21.0	mg/l	187.5		no	
04/06/2014	G13	Aluminium	Purged Sample	Annual	1,800	1,800	ug/l	150		no	
04/06/2014	G13	Arsenic	Purged Sample	Annual	5	5	ug/l	7.5		no	
04/06/2014	G13	Barium	Purged Sample	Annual	2,100	2,100	ug/l	N/A		no	
04/06/2014	G13	Beryllium	Purged Sample	Annual	<1	<1	ug/l	N/A		no	
04/06/2014	G13	Boron	Purged Sample	Annual	20	20	ug/l	750		no	
04/06/2014	G13	Cadmium	Purged Sample	Annual	0.10	0.10	ug/l	3.8		no	
04/06/2014	G13	Calcium	Purged Sample	Annual	230	230	mg/l	N/A		no	

Groundwater/Soil monitoring template				W0026-03	W0026-03	Year		2014		
04/06/2014	G13	Cobalt	Purged Sample	Annual	1.2	1.2	ug/l	N/A		no
04/06/2014	G13	Iron	Purged Sample	Annual	12,000	12,000	ug/l	200		no
04/06/2014	G13	Lead	Purged Sample	Annual	2.3	2.3	ug/l	18.8		no
04/06/2014	G13	Magnesium	Purged Sample	Annual	5.3	5.3	mg/l	50		no
04/06/2014	G13	Manganese	Purged Sample	Annual	390	390	ug/l	50		no
04/06/2014	G13	Nickel	Purged Sample	Annual	<1	<1	ug/l	15		no
04/06/2014	G13	Potassium	Purged Sample	Annual	1.1	1.1	mg/l	5		no
04/06/2014	G13	Selenium	Purged Sample	Annual	<1	<1	ug/l	N/A		no
04/06/2014	G13	Sodium	Purged Sample	Annual	18.0	18.0	mg/l	150		no
04/06/2014	G13	Strontium	Purged Sample	Annual	580	580	ug/l	N/A		no
04/06/2014	G13	Thallium	Purged Sample	Annual	<1	<1	ug/l	N/A		no
04/06/2014	G13	Uranium	Purged Sample	Annual	<1	<1	ug/l	9		no
04/06/2014	G13	Vanadium	Purged Sample	Annual	3	3	ug/l	N/A		no
04/06/2014	G13	Mercury	Purged Sample	Annual	<0.5	<0.5	ug/l	0.8		no
04/06/2014	G13	Antimony	Purged Sample	Annual	<1	<1	ug/l	N/A		no
04/06/2014	G13	Chromium	Purged Sample	Annual	2.0	2.0	ug/l	37.5		no
04/06/2014	G13	Copper	Purged Sample	Annual	1.7	1.7	ug/l	1500		no
04/06/2014	G13	Molybdenum	Purged Sample	Annual	<1	<1	ug/l	N/A		no
04/06/2014	G13	Zinc	Purged Sample	Annual	15.0	15.0	ug/l	5000		no
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	DWS	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
30/01/2014, 04/06/2014, 26/08/2014, 04/11/2014	G15	pH	Purged Sample	Quarterly	7.6	7.3	pH Units	6.5-9.1	6.5-9.0	no
as above	G15	Temp	Purged Sample	Quarterly	12	11	degrees C	N/A	1,500	no
as above	G15	DO	Purged Sample	Quarterly	39	23	% Sat	N/A	0.3	no
as above	G15	Conductivity	Purged Sample	Quarterly	466	448	uS/cm	1,875	250	no
as above	G15	Ammonia	Purged Sample	Quarterly	2.3	1.98	mg/l	0.175	No Abnormal Change	no
as above	G15	Chloride	Purged Sample	Quarterly	10	10	mg/l	187.5	0	no
as above	G15	TOC	Purged Sample	Quarterly	8.3	5.4	mg/l	N/A	1	no
04/06/2014	G15	Coliforms	Purged Sample	Annual	<10	<10	CFU	N/A		no
04/06/2014	G15	Ortho-P	Purged Sample	Annual	<0.01	<0.01	ug/l	0.035	200	no
04/06/2014	G15	TON	Purged Sample	Annual	<0.2	<0.2	ug/l	Abnormal Cha	500	no
04/06/2014	G15	Alkalinity	Purged Sample	Annual	221	221	ug/l	N/A		no
04/06/2014	G15	Fluoride	Purged Sample	Annual	1.00	1.00	ug/l	1		no
04/06/2014	G15	Sulphate	Purged Sample	Annual	<2.5	<2.5	mg/l	187.5		no
04/06/2014	G15	Aluminium	Purged Sample	Annual	1,600	1,600	ug/l	150		no
04/06/2014	G15	Arsenic	Purged Sample	Annual	9	9	ug/l	7.5		no
04/06/2014	G15	Barium	Purged Sample	Annual	2,100	2,100	ug/l	N/A		no
04/06/2014	G15	Beryllium	Purged Sample	Annual	<1	<1	ug/l	N/A		no
04/06/2014	G15	Boron	Purged Sample	Annual	32	32	ug/l	750		no
04/06/2014	G15	Cadmium	Purged Sample	Annual	0.05	0.05	ug/l	3.8		no
04/06/2014	G15	Calcium	Purged Sample	Annual	59	59	mg/l	N/A		no
04/06/2014	G15	Cobalt	Purged Sample	Annual	<1	<1	ug/l	N/A		no
04/06/2014	G15	Iron	Purged Sample	Annual	2,000	2,000	ug/l	200		no
04/06/2014	G15	Lead	Purged Sample	Annual	1.6	1.6	ug/l	18.8		no

Groundwater/Soil monitoring template				W0026-03	W0026-03	Year	2014				
04/06/2014	G15	Magnesium	Purged Sample	Annual	9.9	9.9	mg/l	50	no		
04/06/2014	G15	Manganese	Purged Sample	Annual	160	160	ug/l	50	no		
04/06/2014	G15	Nickel	Purged Sample	Annual	2.2	2.2	ug/l	15	no		
04/06/2014	G15	Potassium	Purged Sample	Annual	1.7	1.7	mg/l	5	no		
04/06/2014	G15	Selenium	Purged Sample	Annual	<1	<1	ug/l	N/A	no		
04/06/2014	G15	Sodium	Purged Sample	Annual	8.8	8.8	mg/l	150	no		
04/06/2014	G15	Strontium	Purged Sample	Annual	1,100	1,100	ug/l	N/A	no		
04/06/2014	G15	Thallium	Purged Sample	Annual	<1	<1	ug/l	N/A	no		
04/06/2014	G15	Uranium	Purged Sample	Annual	<1	<1	ug/l	9	no		
04/06/2014	G15	Vanadium	Purged Sample	Annual	2	2	ug/l	N/A	no		
04/06/2014	G15	Mercury	Purged Sample	Annual	<.5	<.5	ug/l	0.8	no		
04/06/2014	G15	Antimony	Purged Sample	Annual	<1	<1	ug/l	N/A	no		
04/06/2014	G15	Chromium	Purged Sample	Annual	1.2	1.2	ug/l	37.5	no		
04/06/2014	G15	Copper	Purged Sample	Annual	13.0	13.0	ug/l	1500	no		
04/06/2014	G15	Molybdenum	Purged Sample	Annual	5	5	ug/l	N/A	no		
04/06/2014	G15	Zinc	Purged Sample	Annual	22.0	22.0	ug/l	5000	no		
04/06/2014	G015	Other List I/II Organics & Inorganics	Purged Sample	Annual	< Applicable IGTV and/or GTV	< Applicable IGTV and/or GTV	ug/l		no	< Applicable IGTV and/or GTV	
trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete Groundwater monitoring template											
More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31) Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013)											
**Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)											
								Surface water EQS	Groundwater regulations GTV's	Drinking water (private supply) standards	water (public supply)

Table 3: Soil results

Groundwater/Soil monitoring template				W0026-03	W0026-03	Year	2014
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 not agreed by EPA;	Completed and Submitted in March 2011
2	ELRA review status	Review required and not completed;	3 year review due in 2014. Review will be completed in 2015.
3	Amount of Financial Provision cover required as determined by the latest ELRA	€115,000	
4	Financial Provision for ELRA status	Submitted and agreed by EPA	
5	Financial Provision for ELRA - amount of cover	€200,000 up to 2016	
6	Financial Provision for ELRA - type	cash deposit	
7	Financial provision for ELRA expiry date	16/11/2042	
8	Closure plan initial agreement status	sure plan submitted and not agreed by EPA	
9	Closure plan review status	Review required and not completed	Site Closed in November 2012. A review of the CRAMP will be completed in 201
10	Financial Provision for Closure status	Submitted and not agreed by EPA;	
11	Financial Provision for Closure - amount of cover	€4.3 Million	To be revised in updated CRAMP
12	Financial Provision for Closure - type	cash deposit	
13	Financial provision for Closure expiry date	16/11/2042	

Environmental Management Programme/Continuous Improvement Programme template	Lic No: W0026-03	Year 2014
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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 pared for compliance with condit
2 Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes s and objectives and targets for s
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 Web Site & Environmetal Awarene

Environmental Management Programme (EMP) report					
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Energy Efficiency/Utility conservation	Landfill Gas Utilisation	60	retrofit of existing landfill gas	Section Head	Increased compliance with licence conditions
Reduction of emissions to Air	Complete Capping works	100	Cell capped in March 2013	Section Head	Increased compliance with
Groundwater protection	Complete groundwater risk	100	Review of Site & Chemical Dat	Section Head	Increased compliance with

Noise monitoring summary report

Lic No:

W0026-03

Year

2014

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?

Enter date

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

No

Landfill is in closed status since November 2012

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/eve)
24/04/2014	30 min	N1	N/A	56.2	49.7	58.7	78.1	No	No	N80 Traffic in Distance	No
24/04/2014	30 minutes	N2	N/A	51.3	49.6	54.3	71.1	No	No	Civic Amenity Site	Yes
24/04/2014	30 minutes	N3	N/A	60.4	50.8	64.1	78.1	No	No	N80 Traffic / Not Site Activ	No
24/04/2014	30 minutes	N4	N/A	55.1	49	58.4	74.1	No	No	N80 Traffic in Distance	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?

nothing**

The only exceedence in noise levels on site was at N3 & N1 which were located in the vicinity of the N80 Road which was the main noise source. The site is closed and no site operations take place that would constitute exceeding the Regulatory noise limits.

Any additional comments? (less than 200 words)

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

Table R1 Energy usage on site				
Energy Use	Previous year	Current year	+/- % compared to previous reporting	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)				
Total Energy Generated (MWHrs)	0	0		
Total Renewable Energy Generated (MWHrs)	0	0		
Electricity Consumption (MWHrs)	128	126	-7.10%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	10.95	9	-18.00%	
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

Table R2 Water usage on site				Water Emis Water Consumption			
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting	Energy Consumption +/- % vs overall site production*	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	0	0					
Surface water	0	0	0%		0		N/A
Public supply	153	190	24.00%		190		0
Recycled water							
Total							

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

Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	29.78			3	26.78
Non-Hazardous (Tonnes)	3108.34	1642.6		1465.74	

Resource Usage/Energy efficiency summary	W0026-03	W0026-03	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 %	Implement ation 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
Technology					
Primary Fuel					
Thermal Efficiency					
Unit Date of Commission					
Total Starts for year					
Total Running Time					
Total Electricity Generated (GWH)					
House Load (GWH)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used on Site					

Complaints and Incidents summary template W0026-03 W0026-03 Year 2014

Complaints

Additional information

Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below

No	
----	--

Table 1 Complaints summary

Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year		0					
Total new complaints received during reporting year		0					
Total complaints closed during reporting year		0					
Balance of complaints end of reporting year		0					

Incidents

Additional information

Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below

Yes	
-----	--

*For information on how to report and what constitutes an incident [What is an incident](#)

Table 2 Incidents summary

Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution date	Likelihood of reoccurrence
12/11/2014	Fire	Other location (Compactor a	1. Minor	Air	Other	Hot ashes d	Normal activities	EPA	New	Fire Extinguishers deployed & Fire Brigad	Erection d	17/11/2014	Low
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT				SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT				SELECT
Total number of incidents current year		1											
Total number of incidents previous year		2											
% reduction/increase	50% Reduction												

WASTE SUMMARY	W0026-03	W0026-03	Year	2014
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE		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)
- If yes please enter details in table 1 below
- 2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information
- 3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

Additional Information	
Yes	Public waste disposal area & CA Site
No	
No	

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

Licenced annual tonnage limit for your site (total tonnes/annum)	EWC code	Source of waste accepted	Description of waste accepted <i>Please enter an accurate and detailed description - which applies to relevant EWC code</i> 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 -
	LANDFILL										
47,100	20 03 01, 20 03 03, 20 02 02	Household, streetsweepings, illegal dumping cleanup, Soil & Stones	Mixed Municipal Waste - Household Waste, Street Cleansing, Soil & Stones	1642.6	1709	-4%	Site is closed and only accepts limited volumes of household waste		D15-Storage pending any of the operations	0	All waste transferred off site - Landfill Activities Suspend
	CIVIC AMENITY SITE										
	20 03 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Mixed Residual Waste	0.00	7.00				D15-Storage pending any of the operations	0	Transferred to Dehid Landfill
	20 02 01, 20 01 38	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Organic Waste	217.26	28.00	675%	More Public members bring green waste to site		R13-Storage of waste pending any of the operations	0	Transferred to O'Tooles Compost Site
	15 01 01, 20 01 01,	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Paper & Cardboard	324.72	322.00	1%		58%	R13-Storage of waste pending any of the operations	0	Transferred to AES Tullamor
	20 01 02, 15 01 07	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Glass	146.86	132.00	11%		95%	R13-Storage of waste pending any of the operations	0	Glassco Recycling Ltd,WFP= KE-08-0257-01
	20 01 11	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Textiles	26.98	21.00	29%			R13-Storage of waste pending any of the operations	0	Textile Recycling
	20 01 08	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Biodegradeable Kitchen Waste	24.75	27.00	-9%			R13-Storage of waste pending any of the operations	0	Transferred to Dehid for composting

WASTE SUMMARY		W0026-03	W0026-03	Year	2014			
13 02 05, 13 02 06, 16 01 07	13- OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)	Oil & Oil Filters	10.56	8.92	18%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	Transferred to ENVA	
20 01 27	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Waste Paint	15.62	17.86	-13%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	Transferred to ENVA	
16 01 03	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Tyres	17.76	11.58	53%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	Crumb Rubber Ireland Ltd, WFP-LH-10-0005-01	
17 08 02	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Plasterboard	N/A	5.62		R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	Transferred to AES Tullamore	
20 01 40	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Aluminium Cans	45.02	35.00	10%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	Transferred to AES Tullamore	
20 01 33	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Batteries	0.60	0.88	-32%	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
20 01 21	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Fluorescent Lamps	3.00	N/A		R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
15 01 02, 20 01 39	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Plastics	354.12	99.00	258%	Increased recycling instead of disposal	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	Transferred to AES Tullamore
15 01 04, 20 01 40	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Metal	168.06	35.00	251%	Increased recycling instead of disposal	R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	Transferred to AES Tullamore
20 01 36	16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST	WEEE	185.48	N/A		R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)	Transferred to AES Tullamore	

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

N/A	CA site does not process waste material
-----	---

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

Yes	CA site has all appropriate storage containers approved for use
-----	---

6 Does your facility have relevant nuisance controls in place?

N/A	Very limited due to nature and location of CA site
-----	--

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

N/A	
-----	--

8 Do you maintain a sludge register on site?

N/A	
-----	--

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

WASTE SUMMARY	W0026-03	W0026-03	Year	2014
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Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments
Household	28,400	1,642	0	Site is closed, material accepted was for transport off site for treatment and disposal
Construction & Demolition	500	0		site is closed, re-used for landscaping
Industrial non-hazardous	3,000	0		Site is closed, material accepted was for transport off site for treatment and disposal
			0	

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste
										SELECT UNIT	SELECT UNIT
		Nov-12	No	Public	Non Hazardous	Already cea	No	No	No		

WASTE SUMMARY	W0026-03	W0026-03	Year	2014
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Table 4 Environmental monitoring-landfill only [Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments
Yes	Yes	Yes	Yes	Yes	No	No	Yes	Topography was considered the same as 2103

+. 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	waste that should be permanently capped to date under	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					
All Areas Capped	None	126740 m2	Entire landfill capped with		Capping system co	All areas Permanently 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

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

No

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load	Leachate treatment on-site	Specify type of leachate	Comments
8269 m ³	557	1,677	699	2,081	None	Off Site Waste Water Treatment Plant	

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
920.6	0	No	No	Gas is flared off



Environmental Protection Agency

| PRTR# : W0026 | Facility Name : Kyletalesha Landfill | Filename : W0026_2014_F01.xls | Return Year : 2014 |

[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	Laois County Council
Facility Name	Kyletalesha Landfill
PRTR Identification Number	W0026
Licence Number	W0026-03

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Clonsoughy
Address 2	Kyleclonhobert
Address 3	
Address 4	
	Laois
Country	Ireland
Coordinates of Location	-6.36721 53.325
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Ken Farrell
AER Returns Contact Email Address	kfarrell@laoiscoco.ie
AER Returns Contact Position	Landfill Manager
AER Returns Contact Telephone Number	087 - 7999945
AER Returns Contact Mobile Phone Number	087 - 7999945
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	3
User Feedback/Comments	Methane generation is reducing (by 11% since 2013) and flared methane has reduced by 36% (since 2013) - which has led to the overall increase in methane emissions for 2014.
Web Address	

2. PRTR CLASS ACTIVITIES

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

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

Is it applicable?	
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) ?	
--	--

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0026 | Facility Name : Kyletalesha Landfill | Filename : W0026_2014_F01.xls | Return Year : 2014 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
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
03	Carbon dioxide (CO2)	C	OTH	Gas Sim 2.5 Statistics & Site data	44225.026	365310.974	0.0	321085.948
01	Methane (CH4)	C	OTH	Gas Sim 2.5 Statistics & Site data	18412.62	428414.256	0.0	410001.636

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

SECTION B : REMAINING PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
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
15	Chlorofluorocarbons (CFCs)	C	OTH	Gas Sim 2.5 - PI Report	0.0	5.53	0.0	5.53
14	Hydrochlorofluorocarbons (HCFCs)	C	OTH	Gas Sim 2.5 - PI Report	0.0	5.12	0.0	5.12

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

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

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
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:

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour
			Method Code	Designation or Description	
Total estimated methane generation (as per site model)	1349045.256	C	OTH	Gas Sim 2.5 Statistics	N/A
Methane flared	920631.0	M	OTH	Site data	750.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	428414.256	C	OTH	Total generation - Flared Sit	N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR# : W0026 | Facility Name : Kyletalesha Landfill | Filename : W0026_2014_F01.xls | Return Year : 2014 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as t

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		M/C/E	Method Used		QUANTITY			
No. Annex II	Name		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 B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		M/C/E	Method Used		QUANTITY			
No. Annex II	Name		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 WATERS					Please enter all quantities in this section in KGs			
POLLUTANT		M/C/E	Method Used		QUANTITY			
Pollutant No.	Name		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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0026 | Facility Name : Kyletalesha Landfill | Filename : W0026_2014_F01.xls | Return \

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SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					0.0	0.0	0.0	0.0

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
					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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : W0026 | Facility Name : Kyletalesha Landfill | Filename : W0026_2014_F01.xls | Return Year : 2014 |

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SECTION A : PRTR POLLUTANTS

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

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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0026 | Facility Name : Kyletalesha Landfill | Filename : W0026_2014_F01.xls | Return Year : 2014 |

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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 : Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	16 01 03	No	17.76	end-of-life tyres	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	20 01 01	No	137.84	paper and cardboard	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	20 01 11	No	26.98	textiles	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	20 01 38	No	217.26	wood other than that mentioned in 20 01 37	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	20 01 40	No	123.04	metals	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	20 01 33	Yes	0.6	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland	AES Tullamore,W0104-02,Cappincur Industrial Estate,Daingean Road,Tullamore,Offaly,Ireland	Cappincur Industrial Estate,Daingean Road,Tullamore,Offaly,Ireland
Within the Country	20 01 21	Yes	3.0	fluorescent tubes and other mercury-containing waste	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland	AES Tullamore,W0104-02,Cappincur Industrial Estate,Daingean Road,Tullamore,Offaly,Ireland	Cappincur Industrial Estate,Daingean Road,Tullamore,Offaly,Ireland
Within the Country	13 02 04	Yes	10.56	mineral-based chlorinated engine, gear and lubricating oils	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland	AES Tullamore,W0104-02,Cappincur Industrial Estate,Daingean Road,Tullamore,Offaly,Ireland	Cappincur Industrial Estate,Daingean Road,Tullamore,Offaly,Ireland
Within the Country	20 01 27	Yes	15.62	paint, inks, adhesives and resins containing dangerous substances	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland	Cappincur,,Tullamore,Co Offaly,Ireland	Cappincur Industrial Estate,Daingean Road,Tullamore,Offaly,Ireland
Within the Country	20 01 02	No	7.78	discarded electrical and electronic equipment other than those mentioned in 20 01 35	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	20 01 36	No	185.48	discarded electrical and electronic equipment other than those mentioned in 20 01 35	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	20 01 08	No	24.75	biodegradable kitchen and canteen waste	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	20 01 39	No	266.2	plastics	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	15 01 04	No	45.02	metallic packaging	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	15 01 01	No	186.88	paper and cardboard packaging	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	15 01 02	No	87.66	plastic packaging	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	15 01 07	No	139.08	glass packaging	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	15 01 02	No	0.26	plastic packaging	R12	M	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Cappincur,,Tullamore,Co Offaly,Ireland		
Within the Country	19 07 03	No	8269.0	landfill leachate other than those mentioned in 19 07 02	D8	M	Weighed	Offsite in Ireland	Portlaoise Wastewater Treatment Plant,D0001-01	Ridge Road,,Portlaoise,Co Laois,Ireland		

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