SELECT	cells that are highlighted blue contain a dropdown menu click to select one option from the list
guidance document link	cells that contain underlined text click to access relevant guidance documents for this section
Table heading *	table headings followed by a symbol have an associated footnote or instructions
Cells with red indicator in top right corner	cells that have a red indicator in the top right corner contain a comment box with further instructions or clarification

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

Facility Information Summary

AER Reporting Year Licence Register Number Name of site Site Location NACE Code Class/Classes of Activity National Grid Reference (6E, 6 N)

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

2016
W0089-02
Derryconnell Landfill & Civic Amenity Site
Derryconnell, Schull, Co. Cork
3821
5(c), 5(d), & 50.1
(49E, 53N)
Description of Activities on Site during 2016:

The Facility at Derryconnell consists of a closed Landfill and a Civic Amenity Site. Deposition of waste at the landfill ceased in August 2010 and the final capping works were completed by Q2 2011. The main activities at the site during 2016 were the extraction of gas and leachate from the closed landfill (extracted gas is flared on-site and leachate is pumped to an on-site lagoon prior to being transported for treatment to Bandon WWTP) and the acceptance and storage of waste at the Civic Amenity Site for off-site treatment/disposal/recycling.

Exceedances of Licence Limits during 2016:

None.

Overview of Licence Compliance during 2016:

There was no non-compliance issued against the licence in 2016.

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.

Mairead Hales	
Signature	30/03/2017
Group/Facility manager	Date
(or nominated, suitably qualified and experienced deputy)	

3	

AIR-summary template	Lic No:	W0089-02	Year	2016	
Answer all questions and complete all tables where relevant					
			Additional information		
				l	
Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current				l	

reporting year and answer further questions. If you do not have licenced emissions and do not complete a solvent management plan (table A4 and A5) you do not have licenced emissions and do not complete a

Yes Nitrogen Oxides at Landfill Gas Flare

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

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

Emission reference no:	Parameter/ Substance	Frequency of	ELV in licence or any revision therof	Licence Compliance criteria	Measured value		Compliant with licence limit	Method of analysis	Annual mass	Comments - reason for change in % mass load from previous year if applicable
A1-1 (Landfill Gas Flare)	-	Biannually	150 mg/m ³	No 30min mean can exceed the ELV	92.45	mg/Nm3	yes	EN 14792:2005	10.03	
A1-1 (Landfill Gas Flare)	0	Biannually	150 mg/m ³	No 30min mean can exceed the ELV	25.70	mg/Nm3	yes	EN 14792:2005		
A1-1 (Landfill Gas Flare)	Volumetric flow	Continuous	N/A	N/A	147.00	Nm3/hour	N/A	отн		Average flow rate during flare runtime
	SELECT			SELECT		SELECT	SELECT	SELECT		

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

AIR	-summary template	Lic No:	W0089-02	Year	2016	
	Continuous Monitoring					
	es your site carry out continuous air emissions monitoring? es please review your continuous monitoring data and report the required fields below in Table A2 and compare it	Yes	Carbon Mo	noxide at Landfill Gas Flare		
5	s relevant Emission Limit Value (ELV) continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	No				
6 Do y	ou have a proactive service agreement for each piece of continuous monitoring equipment?	Yes	Service & M	aintenance contract in place		
	your site experience any abatement system bypasses? If yes please detail them in table A3 below le A2: Summary of average emissions -continuous monitoring	No				

Emission	Parameter/ Substance		Averaging Period	Compliance Criteria	Units of	Annual Emission	Annual maximum	Monitoring	Number of ELV	Comments
reference no:					measurement			Equipment	exceedences in	
								downtime (hours)	current	
		ELV in licence or							reporting year	
		any revision therof								
A1-1 (Landfill Gas										
Flare)	Carbon monoxide (CO)	N/A	10 Mins	N/A	mg/Nm3	10.96	20.44	0	N/A	
A1-1 (Landfill Gas										
Flare)	Volumetric flow	N/A	10 Mins	N/A	Nm3/hour	147.00	159	0	N/A	
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

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

Table A3: Abatement system bypass reporting table Bypass protocol

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

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

** an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency

inspections please refer to bypass protocol link

AIR-summary t	template				Lic No:	W0089-02		Year	2016	
Solven	t use and managemer	nt on site								
Do you have a tota	l Emission Limit Value of dire	ect and fugitive emiss	ions on site? if yes	please fill out tables A4 and A5			No			
Table A4: Solve VOC Emission	ent Management Plan limit value	Summary Total	<u>Solvent</u> regulations	Please refer to linked solver complete table 5						
Reporting year	Total solvent input on site (kg)	emissions to Air	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance					
					SELECT	_				
Table AF	: Solvent Mass Balanc				SELECT					
Table A5	Solvent Mass Balance	e summary							1	
	(I) Inputs (kg)			(0)	Outputs (kg)					
Solvent	(I) Inputs (kg)		Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)		Solvents destroyed onsite through	Total emission of Solvent to air (kg)	1	
									1	
]	
							Tota			

AER Mo	nitoring returns su	mmary template-WATER/WAST	EWATER(SEWER)			Lic No:	W0089-02		Year	2016
							Additional information			
1 W2 and V	W3 below for the cur	nissions direct to surface water or dire rent reporting year and answer furth plete table W1 and or W2 for storm w	er questions. If you do not	t have licenced						
2 watercou	Was it a requirement of your licence to carry out visual inspections on any surface water discharges or 2 watercourses on or near your site? If yes please complete table W2 below summarising <u>only any evidence of contamination noted during visual inspections</u>					s	SW 7 - Inspected Weekly SW1-SW9 - Inspected Monthly			
	Table W1 Stor	m water monitoring								
Locatio	Location	DPTP Doromotor	Liconcod Paramotor	Monitoring	ELV or trigger level	Licence Compliance	Moscureduslue	Unit of	Compliant with	Commonts

NormitemConductions<	in relat ice a	Location elative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
Sources Sources Sources Attractist 1.2 kU Cold Loc Loc <thloc< th=""> Loc Loc <thloc< td=""><td></td><td></td><td></td><td>Total Ammonia</td><td>28/01/2016</td><td>1</td><td>All results < 1.2 x ELV</td><td>0.35</td><td>mg/I NH3</td><td>yes</td><td></td></thloc<></thloc<>				Total Ammonia	28/01/2016	1	All results < 1.2 x ELV	0.35	mg/I NH3	yes	
Nome Constraine Constraine <td></td> <td></td> <td>Chlorides (as Cl)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			Chlorides (as Cl)								
Number Bounstream Bounstream<											
System System<			<u> </u>	Total Ammonia							
Source of the section of the			Chiorides (as CI)	Canaduativitu							
Soundary of Nanor Source Source of S											
SynthdownstremConductivity12/07/2016NANACADMAD			Chlorides (as CI)	Total Ammonia							
SynddowestreenControl and compounds (as ColExtra21/07/2016N/AN/AN/AColdGap()UptSynddowestreenControl and compounds (as Col21/07/2016N/AN/ACold21/07/2016N/AN/ACold21/07/2016N/AN/ACold21/07/2016N/AN/ACold21/07/2016N/AN/AN/ACold21/07/2016N/AN/AN/ACold21/07/2016N/AN/			chionaes (as ci)	Conductivity							
Synt Soverstram Control of a control of											
Synt Sountream Constraints and Constraints (G) Calciant 21/07/2016 N/A N/A N/A N/A 21.9 mph mpk m											
Synt downstram Chronium and compounds (sc C) Part (m) N/A N/A N/A N/A Synt downstram Company (m) yes Synt1 downstram Company (m) 21/07/2016 N/A N/A N/A A	do	downstream	Cadmium and compounds (as Cd)		21/07/2016	N/A	N/A	<20.000	μg/l	yes	
Sivil downstream Coper and Compounds (a Cu) mon 21/07/205 N/A N/A N/A 6.1 µµR yes Sivil downstream lead and compounds (a P) n 21/07/205 N/A N/A 1.01 -2.000 µµR yes Sivil downstream Independence (a MN) 21/07/205 N/A N/A 1.01 0.01 yes Sivil downstream Acade and compounds (a SN) Acade and compounds (a SN) 21/07/205 N/A N/A 1.02 1.01 yes Sivil downstream Cara do compounds (a SN) 21/07/205 N/A N/A 1.02 1.01 yes Sivil downstream Cara do compounds (a SN) 21/07/205 N/A N/A 1.01 1.01 yes 1.01 yes 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.	do	downstream		Calcium	21/07/2016	N/A	N/A	23.9			
Sviil downstreem Land compounds (a PD) Torn 21/07/2016 N/A N/A A. A. A. A. A.									μg/I	yes	
SN1 downstream Lad and compounds (s Pb) percent 21/07/2015 N/A N/A N/A 20.000 µµ/I vers SN1 downstream Mckel and compounds (a N) 21/07/2015 N/A N/A A 20.00 µµ/I vers SN1 downstream Kickel and compounds (a N) 21/07/2015 N/A N/A A 2.00 Pil vers SN1 downstream Kickel and compounds (a S2) 21/07/2015 N/A N/A A 2.00 Pil vers Pil<			Copper and compounds (as Cu)						μg/l	yes	
SVI.1 downstream Independence SUID NA NA NA 6.12 mg/l yes SVI.1 downstream Nickel and compounds (a N) P. 21/07/2016 N/A N/A Quart Quart <t< td=""><td></td><td></td><td></td><td>Iron</td><td></td><td></td><td></td><td></td><td></td><td>yes</td><td></td></t<>				Iron						yes	
Svit. downstram Number of workstam			Lead and compounds (as Pb)								
SN1. downstram Nickel and compounds (as kit) Pace and the second sec											
SVI.1 downstram Inc. Pressum 21/07/2016 N/A N/A N/A 2.297 mg/l yes SVI.1 downstram Mercury and compounds (as h] 21/07/2016 N/A N/A N/A <12.00				Manganese (as Mn)							
SW1 dowstream Data can dompounds (az hz) percent of the carry and compounds (as hz) percent of			Nickel and compounds (as Ni)								
SV11dowstreamMercury and compounds (as He) adjubate21/07/2016N/AN/A (-1000) mg/mg/P(wes)SV11dowstreamTotal phosphous21/07/2016N/AN/A (-2500) mg/P(wes)SV11dowstreamTotal phosphous25/11/20161Alf results < 12.4 EUV			7in	Potassium							
SV11downstremcuptopSulphate $21/07/206$ N/AN/AN/A -2.500 mg/l S04(we)SW1downstremTotal hosphoutoTotal hosphouto $25/11/2016$ N/AN/A -3.52 mg/l N/B3wesSW1downstremGlorides (as C) $25/11/2016$ N/AN/A -3.54 mg/l N/B3wesSW1downstremGlorides (as C)Conductivity $25/11/2016$ 750All results < 1.2 kLV						,					
SW1 downstream Total Ammonia 21/07/2016 N/A N/A N/A 3.72 mg/P yees SW1 downstream Chlordes (as C) EX11/2016 N/A N/A 3.837 mg/H yees SW1 downstream Chlordes (as C) EX11/2016 N/A N/A N/A 3.837 mg/H yees Chlordes (as C) EX11/2016 N/A N/A N/A 3.837 mg/L yees Chlordes (as C) EX11/2016 N/A N/A N/A 0.06 mg/L Yees Chlordes (as C) EX11/2016 N/A N/A N/A 2.832 upstream Chlordes (as C) EX11/2016 T/S All results 1.2 x EU 9.69 µJ/C/me 200C yees Chlordes (as C) Ex11/2016 N/A N/A N/A Yees Chlordes (as C) Ex11/2016 T/S All results 1.2 x EU 1.69 µJ/C/me 200C yees Yees Chlordes (as C) Ex11/2016 N/A N/A N/A Yees Chlordes (as C) Ex11/2016			wercury and compounds (as ng)	Sulphate							
SVI1 downstream Total Ammonia 25/11/2016 1 All results < 1.2 EUV 1.5.3 mg/l HVB yes SVI1 downstream Conductivity 25/11/2016 TO All results < 1.2 EUV			Total phosphorus	Sulphate							
SW1 downstream Chordes (as Cl) end 25/11/2016 NA NA NA NA 134.7 mg/l wes est SW1 downstream Conductivity 25/11/2016 TO All results 12.2 EUV 1.89 (S) (G) (200 (201 (201 (201 (201 (201 (201 (201				Total Ammonia							
SVI. downstream Conductivity 25/11/2016 Total Ammonia 25/01/2016 I.A. All results < 1.2 × EUV 0.06 mg/l yes SVU. upstream Chincies (as CI) Ammonia 28/01/2016 N/A N/A 25.88 mg/l yes SVU. upstream Conductivity 28/01/2016 Total Ammonia 21/04/2016 1 All results < 1.2 × EUV			Chlorides (as Cl)								
SV2 upstream Total Ammonia 22/01/2016 1 All results < 1.2 x EV 0.06 mg/l NH3 yes SV2 upstream Conductivity 22/01/2016 N/A N/A 23.8 mg/l yes SV2 upstream Conductivity 22/04/2016 1 All results < 1.2 x EV				Conductivity							
SW2 upstream Conductivity 28/07/2016 750 All results 1.2 x EUV 96 µS/m (2000) yes SW2 upstream Chorides (as CI) 21/04/2016 N/A N/A SU2 mg/l H33 mg/l yes SW2 upstream Chorides (as CI) 21/04/2016 750 All results 1.2 x EUV 166 µS/m (2000) yes SW2 upstream Conductivity 21/04/2016 750 All results 1.2 x EUV 166 µS/m (2000) yes SW2 upstream Conductivity 21/07/2016 N/A N/A 45.44 mg/l yes SW2 upstream Conductivity 21/07/2016 N/A N/A 45.44 mg/l yes SW2 upstream Conductivity 21/07/2016 N/A N/A 17.4 18.45 (Km (2200) yes 21/07/2016 N/A N/A 14.9 mg/l yes 21/07/2016 N/A N/A 14.9 mg/l yes 21/07/2016	u	upstream		Total Ammonia	28/01/2016	1	All results < 1.2 x ELV	0.06			
SW2 upstream Choldes (as C) Total Ammonia 21/04/2016 1 All results < 1.2 x ELV 1.98 mg/l M3 yes SW2 upstream Choldes (as C) 21/04/2016 N/A N/A 52.39 mg/l yes SW2 upstream Choldes (as C) 21/04/2016 750 All results < 1.2 x ELV			Chlorides (as Cl)			N/A		25.38			
SW2 upstream Chiroles (as Cl) 21/04/2016 N/A N/A SU2 mg/l yes SW2 upstream Conductivity 21/04/2016 750 All results < 1.2 x ELV	u	upstream		Conductivity	28/01/2016	750	All results < 1.2 x ELV	96	µS/cm @20oC	yes	
SW2 upstream Conductivity 21/04/2016 750 All results < 1.2 x EU 166 µS/cm @200C yes SW2 upstream Chlorides (as Cl) 102/02016 1 All results < 1.2 x EU	u			Total Ammonia			All results < 1.2 x ELV		mg/I NH3	yes	
SW2 upstream Total Ammonia 21/07/2016 1 All results < 1.2 x EU 0.5 mg/l NH3 yes SW2 upstream Chlorides (as Cl) 21/07/2016 N/A N/A M/A 45.44 mg/l yes SW2 upstream Conductivity 21/07/2016 N/A N/A N/A 51.1 mg/l O2 yes SW2 upstream Dissolved Oxygen 21/07/2016 N/A N/A N/A 0.44 mg/l yes SW2 upstream Cadmium and compounds (as Cd) 21/07/2016 N/A N/A N/A 0.04 mg/l yes SW2 upstream Chronium and compounds (as Cd) 21/07/2016 N/A N/A N/A 1.9 mg/l yes SW2 upstream Chronium and compounds (as Cd) 21/07/2016 N/A N/A N/A 2.0000 µg/l yes SW2 upstream Chronium and compounds (as Cd) 21/07/2016 N/A N/A N/A 1.6.6<			Chlorides (as Cl)								
SW2 upstream Chlorides (as Cl) Question Question N/A N/A N/A 45.44 mg/l yes SW2 upstream Conductivity 21/07/2016 N/A N/A SN2 Upstream MS/C/m @20.00 yes Implifyer Yes Implify											
SW2 upstream Conductivity 21/07/2016 750 All results < 1.2 x EU 198 µS/cm @200C yes SW2 upstream Dissolved Doxygen 21/07/2016 N/A N/A SV1 mg/l O2 yes SW2 upstream Cadnium and compounds (as Cd) 01/07/2016 N/A N/A N/A 0.04 mg/l O2 yes SW2 upstream Cadnium and compounds (as Cd) 21/07/2016 N/A N/A N/A 20.000 µg/l yes SW2 upstream Chomium and compounds (as Cr) 21/07/2016 N/A N/A N/A 20.000 µg/l yes SW2 upstream Coper and compounds (as Cu) 21/07/2016 N/A N/A N/A 20.000 µg/l yes SW2 upstream Coper and compounds (as Cu) 21/07/2016 N/A N/A N/A 20.000 µg/l yes SW2 upstream Load and compounds (as Pb) 21/07/2016 N/A N/A SNA				Total Ammonia							
SW2 upstream Dissolved Oxygen 21/07/2016 N/A N/A SM2 img/l O2 yes SW2 upstream Boron 21/07/2016 N/A N/A 0.06 mg/l yes SW2 upstream Cadnium and compounds (as Cd) 21/07/2016 N/A N/A 0.06 mg/l yes SW2 upstream Cadnium and compounds (as Cd) 21/07/2016 N/A N/A A 4.0			Chlorides (as Cl)								
SW2 upstream Boron 21/07/2016 N/A N/A Questream mg/l yes SW2 upstream Cadnium and compounds (as Cd) Calcium 21/07/2016 N/A N/A A 4.0.000 µg/l yes SW2 upstream Commum and compounds (as Cd) Calcium 21/07/2016 N/A N/A A 4.9 mg/l yes SW2 upstream Chomium and compounds (as Cd) 21/07/2016 N/A N/A A 4.20.000 µg/l yes SW2 upstream Coperand compounds (as Cu) 21/07/2016 N/A N/A N/A 4.20.000 µg/l yes SW2 upstream Coperand compounds (as Pb) 7007/2016 N/A N/A N/A 4.20.000 µg/l yes SW2 upstream Lead and compounds (as Pb) 21/07/2016 N/A N/A 1.00 1.01 21/07/2016 N/A N/A 1.50 µg/l yes SW2 upstream											
SW2 upstream Calcum 21/07/2016 N/A N/A											
SW2 upstream Calcium 21/07/2016 N/A N/A 14.9 mg/l yes SW2 upstream Chronium compounds (as Cr) 21/07/2016 N/A N/A <20.000			Cadmium and compounds (as Cd)	801011							
SW2 upstream Chromium and compounds (as Cr) 21/07/2016 N/A N/A N/A <			cadmian and compounds (as cu)	Calcium							
SW2 upstream Copper and compounds (as Cu) 21/07/2016 N/A N/A			Chromium and compounds (as Cr)	calcian							
SW2 upstream Iron 21/07/2016 N/A N/A N/A 16.6 mg/l yes SW2 upstream Lead and compounds (as Pb) 21/07/2016 N/A N/A <20.000											
SW2 upstream Lead and compounds (as Pb) QL07/2016 N/A N/A				Iron							
SW2 upstream Magnesum 21/07/2016 N/A N/A S63 mg/l yes SW2 upstream Manganese (as Mn) 21/07/2016 N/A N/A 11500 µg/l yes SW2 upstream Nickel and compounds (as Ni) 21/07/2016 N/A N/A 4.0000 µg/l yes SW2 upstream Nickel and compounds (as Ni) 21/07/2016 N/A N/A 4.200.000 µg/l yes SW2 upstream Condoctypes 21/07/2016 N/A N/A 3.17 mg/l yes SW2 upstream And compounds (as An) 21/07/2016 N/A N/A 62 µg/l yes SW2 upstream Mercury and compounds (as Hg) 21/07/2016 N/A N/A <<10.000	u	upstream	Lead and compounds (as Pb)		21/07/2016	N/A	N/A				
SW2 upstream Nickel and compounds (as Ni) 21/07/2016 N/A N/A yes SW2 upstream Nickel and compounds (as Xii) Potassium 21/07/2016 N/A N/A 3.17 mg/l yes SW2 upstream Zinc and compounds (as Zii) 21/07/2016 N/A N/A 3.17 mg/l yes SW2 upstream Mercury and compounds (as Hg) 21/07/2016 N/A N/A <62					21/07/2016		N/A				
SW2 upstream Potassium 21/07/2016 N/A N/A 3.17 mg/l yes SW2 upstream Zinc and compounds (as Zn) 21/07/2016 N/A N/A 62 i.g/l yes SW2 upstream Mercury and compounds (as Hg) 21/07/2016 N/A N/A <10.000				Manganese (as Mn)						yes	
SW2 upstream Zinc and compounds (as Zn) 21/07/2016 N/A N/A Column (Columna) Main			Nickel and compounds (as Ni)								
SW2 upstream Mercury and compounds (as Hg) 21/07/2016 N/A N/A yes SW2 upstream Sulphate 21/07/2016 N/A N/A N/A <2.500				Potassium							
SW2 upstream Sulphate 21/07/2016 N/A N/A <2.500 mg/l SO4 yes SW2 upstream Total phosphorus 21/07/2016 N/A N/A 4.24 mg/l P yes SW2 upstream Total phosphorus 107/2016 1 All results <1.2 x ELV											
SW2 upstream Total phosphorus 21/07/2016 N/A N/A 4.24 mg/l P yes SW2 upstream Total Ammonia 25/11/2016 1 All results < 1.2 x ELV			Mercury and compounds (as Hg)								
SW2 upstream Total Ammonia 25/11/2016 1 All results < 1.2 x EU 0.07 mg/l NH3 yes SW2 upstream Chlorides (as Cl) 25/11/2016 N/A M/A 40.95 mg/l NH3 yes SW2 upstream Conductivity 25/11/2016 750 All results < 1.2 x EU			Total phosphorus	Suipnate							
SW2 upstream Chlorides (as Cl) 25/11/2016 N/A N/A 40.95 mg/l yes SW2 upstream Conductivity 25/11/2016 750 All results < 1.2 x ELV			rotar priospriorus	Total Ammonia							
SW2 upstream Conductivity 25/11/2016 750 All results < 1.2 x EU 156 µS/cm @20oC yes SW3 downstream Total Ammonia 28/01/2016 1 All results < 1.2 x EU			Chlorides (as Cl)	Total Allimonia							
SW3 downstream Total Ammonia 28/01/2016 1 All results < 1.2 x ELV 0.13 mg/l NH3 yes SW3 downstream Chlorides (as Cl) 28/01/2016 N/A N/A 31.57 mg/l yes			cilionaco (as cij	Conductivity							
SW3 downstream Chlorides (as Cl) 28/01/2016 N/A N/A 31.57 mg/l yes											
			Chlorides (as Cl)			-					
20/01/2010 /30 All results N 1.2 X CLV 131 US/UII (#200C Ves		downstream		Conductivity	28/01/2016	750	All results < 1.2 x ELV	131	μS/cm @20oC	yes	
SW3 downstream Total Ammonia 21/04/2016 1 All results < 1.2 x ELV 0.76 mg/l NH3 yes											
SW3 downstream Chlorides (as Cl) 21/04/2016 N/A N/A 44.02 mg/l γes	do	downstream	Chlorides (as Cl)			N/A	N/A	44.02			
SW3 downstream Conductivity 21/04/2016 750 All results < 1.2 x ELV 170 µS/cm@20oC yes											
SW3 downstream Total Ammonia 21/07/2016 1 All results < 1.2 x ELV 0.39 mg/l NH3 yes				Total Ammonia				0.00			
SW3 downstream Chlorides (as Cl) 21/07/2016 N/A N/A 36.03 mg/l yes	do	downstream	Chlorides (as Cl)		21/07/2016	N/A	N/A	36.03	mg/l	yes	

AER Monitori	ng returns su	immary template-WATER/WAST	TEWATER(SEWER)			Lic No:	W0089-02		Year	2016
SW3	downstream		Conductivity	21/07/2016	750	All results < 1.2 x ELV	191	µS/cm @20oC	yes	
SW3	downstream		Total Ammonia	25/11/2016	1	All results < 1.2 x ELV	0.56	mg/I NH3	yes	
SW3	downstream	Chlorides (as Cl)		25/11/2016	N/A	N/A	35.72	mg/l	yes	
SW3	downstream		Conductivity	25/11/2016	750	All results < 1.2 x ELV	166	μS/cm @20oC	yes	
SW3	downstream		Boron	25/11/2016	N/A	N/A	0.02	mg/l	yes	
SW3		Cadmium and compounds (as Cd)		25/11/2016	N/A	N/A	<20.000	μg/I	yes	
SW3	downstream		Calcium	25/11/2016	N/A	N/A	8.02	mg/l	yes	
SW3		Chromium and compounds (as Cr)		25/11/2016	N/A	N/A	<20.000	μg/l	yes	
SW3		Copper and compounds (as Cu)		25/11/2016	N/A	N/A	<20.000	μg/l	yes	
SW3 SW3	downstream	Lond and companyeds (co. Db.)	Iron	25/11/2016	N/A N/A	N/A N/A	840 <20.000	μg/I	yes	
SW3 SW3	downstream	Lead and compounds (as Pb)	Magnesium	25/11/2016 25/11/2016	N/A N/A	N/A N/A	2.63	μg/l	yes	
SW3 SW3	downstream		Manganese (as Mn)	25/11/2016	N/A N/A	N/A N/A	2.63	mg/l μg/l	yes yes	
SW3		Nickel and compounds (as Ni)	wanganese (as win)	25/11/2016	N/A	N/A N/A	<20.000	μg/i	yes	
SW3	downstream	meker and compounds (as my	Potassium	25/11/2016	N/A	N/A	8.02	mg/l	yes	
SW3		Zinc and compounds (as Zn)		25/11/2016	N/A	N/A	46	μg/l	yes	
SW3	downstream	Mercury and compounds (as Hg)		25/11/2016	N/A	N/A	<10.000	μg/I	yes	
SW3	downstream		Sulphate	25/11/2016	N/A	N/A	7.55	mg/I SO4	yes	
SW3		Total phosphorus		25/11/2016	N/A	N/A	0.01	mg/I P	yes	
SW4	downstream		Total Ammonia	28/01/2016	1	All results < 1.2 x ELV	0.03	mg/I NH3	yes	
SW4		Chlorides (as Cl)		28/01/2016	N/A	N/A	28.2	mg/l	yes	
SW4	downstream		Conductivity	28/01/2016	750	All results < 1.2 x ELV	129		yes	
SW4	downstream	Chloridos (as Cl)	Total Ammonia	21/04/2016	1	All results < 1.2 x ELV	1.56	mg/I NH3	yes	
SW4 SW4	downstream downstream	Chlorides (as Cl)	Conductivity	21/04/2016 21/04/2016	N/A 750	N/A All results < 1.2 x FLV	42.02	mg/l	yes	
SW4 SW4	downstream		Total Ammonia	21/04/2016 21/07/2016	1	All results < 1.2 x ELV All results < 1.2 x ELV	1/6	μS/cm @20oC mg/I NH3	yes yes	
SW4 SW4		Chlorides (as Cl)	rotal Annolla	21/07/2016	N/A	N/A	31.96	mg/1NH3 mg/l	yes	
SW4	downstream	and the fusion	Conductivity	21/07/2016	750	All results < 1.2 x ELV	195	μS/cm @20oC	yes	
SW4	downstream		Total Ammonia	25/11/2016	1	All results < 1.2 x ELV	1.198	mg/I NH3	yes	
SW4		Chlorides (as Cl)		25/11/2016	N/A	N/A	52.4	mg/l	yes	
SW4	downstream		Conductivity	25/11/2016	750	All results < 1.2 x ELV	450	µS/cm @20oC	yes	
SW4	downstream		Boron	25/11/2016	N/A	N/A	0.06	mg/l	yes	
SW4	downstream	Cadmium and compounds (as Cd)		25/11/2016	N/A	N/A	<20.000	μg/I	yes	
SW4	downstream		Calcium	25/11/2016	N/A	N/A	34.2	mg/l	yes	
SW4		Chromium and compounds (as Cr)		25/11/2016	N/A	N/A	<20.000	μg/I	yes	
SW4		Copper and compounds (as Cu)		25/11/2016	N/A	N/A	<20.000	μg/l	yes	
SW4	downstream		Iron	25/11/2016	N/A	N/A	1086	μg/l	yes	
SW4		Lead and compounds (as Pb)		25/11/2016	N/A	N/A	<20.00	μg/l	yes	
SW4 SW4	downstream		Magnesium	25/11/2016	N/A	N/A	6.19	mg/l	yes	
SW4 SW4	downstream	Nielest and annuals (as Ni)	Manganese (as Mn)	25/11/2016 25/11/2016	N/A N/A	N/A N/A	<20.000	μg/l	yes	
SW4 SW4	downstream	Nickel and compounds (as Ni)	Potassium	25/11/2016	N/A N/A	N/A N/A	34.2	μg/l mg/l	yes yes	
SW4		Zinc and compounds (as Zn)	rotassium	25/11/2016	N/A	N/A	34.2	μg/I	yes	
SW4		Mercury and compounds (as Hg)		25/11/2016	N/A	N/A	<10.000	μg/I	yes	
SW4	downstream	······································	Sulphate	25/11/2016	N/A	N/A	9.97	mg/I SO4	yes	
SW4	downstream	Total phosphorus		25/11/2016	N/A	N/A	0.01	mg/I P	yes	
SW5	downstream		Total Ammonia	28/01/2016	1	All results < 1.2 x ELV	0.03	mg/I NH3	yes	
SW5		Chlorides (as Cl)		28/01/2016	N/A	N/A	31.12	mg/l	yes	
SW5	downstream		Conductivity	28/01/2016	750	All results < 1.2 x ELV	128	μS/cm @20oC	yes	
SW5	downstream		Total Ammonia	21/04/2016	1	All results < 1.2 x ELV	0.05	mg/I NH3	yes	
SW5		Chlorides (as Cl)		21/04/2016	N/A	N/A	46.17	mg/l	yes	
SW5	downstream		Conductivity	21/04/2016	750	All results < 1.2 x ELV	165	μS/cm @20oC	yes	
SW5	downstream		Total Ammonia	21/07/2016	1	All results < 1.2 x ELV	0.12	mg/I NH3	yes	
SW5		Chlorides (as Cl)	Conductivity	21/07/2016	N/A	N/A	37.03	mg/l	yes	
SW5 SW5	downstream		Conductivity Dissolved Oxygen	21/07/2016	750 N/A	All results < 1.2 x ELV N/A	183	μS/cm @20oC	yes	
SW5 SW5	downstream downstream		Dissolved Oxygen Boron	21/07/2016 21/07/2016	N/A N/A	N/A N/A	4.93	mg/I O2 mg/I	yes	
SW5 SW5		Cadmium and compounds (as Cd)	boron	21/07/2016	N/A N/A	N/A N/A	<20.000	μg/l	yes	
SW5	downstream	compositios (as cu)	Calcium	21/07/2016	N/A N/A	N/A	20.000	mg/l	yes	
SW5		Chromium and compounds (as Cr)		21/07/2016	N/A	N/A	<20.000	μg/l	yes	
SW5		Copper and compounds (as Cu)		21/07/2016	N/A	N/A	<20.000	μg/l	yes	
SW5	downstream		Iron	21/07/2016	N/A	N/A	3.39	mg/l	yes	
SW5	downstream	Lead and compounds (as Pb)		21/07/2016	N/A	N/A	<20.000	μg/I	yes	
SW5	downstream		Magnesium	21/07/2016	N/A	N/A	5.51	mg/l	yes	
SW5	downstream		Manganese (as Mn)	21/07/2016	N/A	N/A	1160	μg/I	yes	
SW5		Nickel and compounds (as Ni)		21/07/2016	N/A	N/A	<20.000	μg/I	yes	
SW5	downstream		Potassium	21/07/2016	N/A	N/A	1.31	mg/l	yes	
SW5		Zinc and compounds (as Zn)		21/07/2016	N/A	N/A	52	μg/l	yes	
SW5 SW5	downstream downstream	Mercury and compounds (as Hg)	Sulphate	21/07/2016	N/A N/A	N/A N/A	<10.000 <2.500	μg/l	yes	
SW5 SW5		Total phosphorus	suphate	21/07/2016 21/07/2016	N/A N/A	N/A N/A	<2.500 3.65	mg/I SO4 mg/I P	yes	
SW5 SW5	downstream	rotar phosphorus	Total Ammonia	25/11/2016	N/A 1	N/A All results < 1.2 x ELV	3.65	mg/I P mg/I NH3	yes yes	
SW5 SW5		Chlorides (as Cl)	Total Allinolia	25/11/2016	N/A	N/A	33.35	mg/INH3 mg/I	yes	
SW5 SW5	downstream	chionaes (ds cl)	Conductivity	25/11/2016	750	All results < 1.2 x ELV	33.35	μS/cm @20oC	yes	
SW6	downstream		Total Ammonia	28/01/2016	1	All results < 1.2 x ELV	1.53	mg/I NH3	ves	
SW6		Chlorides (as Cl)		28/01/2016	N/A	N/A	29.97	mg/I	yes	
SW6	downstream		Conductivity	28/01/2016	750	All results < 1.2 x ELV	168	μS/cm @20oC	yes	
SW6	downstream		Total Ammonia	21/04/2016	1	All results < 1.2 x ELV	0.01	mg/I NH3	yes	
SW6	downstream	Chlorides (as Cl)		21/04/2016	N/A	N/A	49.4	mg/l	yes	
SW6	downstream		Conductivity	21/04/2016	750	All results < 1.2 x ELV	269		yes	
SW6	downstream		Total Ammonia	21/07/2016	1	All results < 1.2 x ELV	Dry		yes	

	ng roturne	Immory tomplate MATCD /MAC				Lin Max	W0000 03		V	2017
AER Monitor		ummary template-WATER/WAS Chlorides (as Cl)	IEWATER(SEWER)	21/07/2016	N/A	Lic No: N/A	W0089-02	ma/l	Year	2016
SW6 SW6	downstream downstream	chilorides (as ci)	Conductivity	21/07/2016 21/07/2016	N/A 750	N/A All results < 1.2 x ELV	Dry Dry		yes yes	
SW6	downstream		Total Ammonia	25/11/2016	1	All results < 1.2 x ELV	0.83		yes	
SW6		Chlorides (as Cl)	Total / Millionia	25/11/2016	N/A	N/A	40.78		yes	
SW6	downstream		Conductivity	25/11/2016	750	All results < 1.2 x ELV	358	μS/cm @20oC	yes	
SW6	downstream		Boron	25/11/2016	N/A	N/A	0.05		yes	
SW6		Cadmium and compounds (as Cd)		25/11/2016	N/A	N/A	<20.000	10	yes	
SW6	downstream		Calcium	25/11/2016	N/A	N/A	30.7	mg/l	yes	
SW6		Chromium and compounds (as Cr)		25/11/2016	N/A	N/A	<20.000		yes	
SW6		Copper and compounds (as Cu)		25/11/2016	N/A	N/A	<20.000		yes	
SW6 SW6	downstream		Iron	25/11/2016	N/A N/A	N/A N/A	9.93		yes	
SW6	downstream	Lead and compounds (as Pb)	Magnesium	25/11/2016 25/11/2016	N/A N/A	N/A N/A	<20.000		yes	
SW6	downstream		Manganese (as Mn)	25/11/2016	N/A N/A	N/A N/A	5.7		yes yes	
SW6		Nickel and compounds (as Ni)	wanganese (as win)	25/11/2016	N/A	N/A	<20.000	Por	yes	
SW6	downstream	Nexer and compounds (as my	Potassium	25/11/2016	N/A	N/A	30.7		yes	
SW6	downstream	Zinc and compounds (as Zn)		25/11/2016	N/A	N/A	48	β μg/l	yes	
SW6	downstream	Mercury and compounds (as Hg)		25/11/2016	N/A	N/A	<10.000		yes	
SW6	downstream		Sulphate	25/11/2016	N/A	N/A	5.42		yes	
SW6	downstream	Total phosphorus		25/11/2016	N/A	N/A	0.05	mg/I P	yes	
SW7	downstream		pH	28/01/2016	6-9	All values < ELV	6.30		yes	
SW7	downstream		Total Ammonia	28/01/2016	1 750	All results < 1.2 x ELV	0.60		yes	
SW7	downstream		Conductivity	28/01/2016		All results < 1.2 x ELV		pa, and C 2000	yes	
SW7 SW7	downstream downstream		Suspended Solids COD	28/01/2016 28/01/2016	N/A N/A	N/A N/A	4.00		yes	
SW7 SW7		Chlorides (as Cl)	000	28/01/2016	N/A N/A	N/A N/A	39.00		yes ves	
SW7	downstream		pH	25/02/2016	6-9	All values < ELV	6.30		yes	
SW7	downstream		Total Ammonia	25/02/2016	1	All results < 1.2 x ELV	0.53		yes	
SW7	downstream		Conductivity	25/02/2016	750	All results < 1.2 x ELV	202.00		yes	
SW7	downstream		Suspended Solids	25/02/2016	N/A	N/A	6.00	mg/L	yes	
SW7	downstream		COD	25/02/2016	N/A	N/A	29.00		yes	
SW7		Chlorides (as Cl)		25/02/2016	N/A	N/A	57.83		yes	
SW7	downstream		рН	31/03/2016	6-9	All values < ELV	7.30		yes	
SW7	downstream		Total Ammonia	31/03/2016	1	All results < 1.2 x ELV	1.09		yes	
SW7	downstream		Conductivity	31/03/2016	750	All results < 1.2 x ELV	447.00	pa) and C 2000	yes	
SW7 SW7	downstream downstream		Suspended Solids COD	31/03/2016	N/A N/A	N/A N/A	18.00	mg/L	yes	
SW7		Chlorides (as Cl)	COD	31/03/2016 31/03/2016	N/A N/A	N/A N/A	39.26		yes ves	
SW7	downstream	chiorides (as cr)	pH	21/04/2016	6-9	All values < ELV	6.90		yes	
SW7	downstream		Total Ammonia	21/04/2016	1	All results < 1.2 x ELV	1.84		yes	
SW7	downstream		Conductivity	21/04/2016	750	All results < 1.2 x ELV	200.00		yes	
SW7	downstream		Suspended Solids	21/04/2016	N/A	N/A	33.00		yes	
SW7	downstream		COD	21/04/2016	N/A	N/A	14.00	mg/L	yes	
SW7	downstream	Chlorides (as Cl)		21/04/2016	N/A	N/A	40.57		yes	
SW7	downstream		рН	25/05/2016	6-9	All values < ELV	6.60) pH units	yes	
SW7	downstream		Total Ammonia	25/05/2016	1	All results < 1.2 x ELV	1.26		yes	
SW7	downstream		Conductivity	25/05/2016	750	All results < 1.2 x ELV	178.00		yes	
SW7	downstream		Suspended Solids	25/05/2016	N/A	N/A	3.00	U.	yes	
SW7 SW7	downstream	Chlorides (as Cl)	COD	25/05/2016 25/05/2016	N/A N/A	N/A N/A	27.00		yes	
SW7	downstream	Chlorides (as Cl)	nH	25/05/2016	N/A 6-9	N/A All values < ELV	33.86		yes yes	
SW7	downstream		Total Ammonia	29/06/2016	1	All results < 1.2 x ELV	2.62		yes	
SW7	downstream		Conductivity	29/06/2016	750	All results < 1.2 x ELV All results < 1.2 x ELV	244.00		yes	
SW7	downstream		Suspended Solids	29/06/2016	N/A	N/A	15.00		yes	
SW7	downstream		COD	29/06/2016	N/A	N/A	18.00	mg/L	yes	
SW7	downstream	Chlorides (as Cl)		29/06/2016	N/A	N/A	34.58		yes	
SW7	downstream		рН	21/07/2016	6-9	All values < ELV	6.70) pH units	yes	
SW7	downstream		Total Ammonia	21/07/2016	1	All results < 1.2 x ELV	1.56		yes	
SW7	downstream		Conductivity	21/07/2016	750	All results < 1.2 x ELV	203.00		yes	
SW7	downstream		Suspended Solids	21/07/2016	N/A	N/A	10.00) mg/L	yes	
SW7	downstream	Chloridos (as Cl)	COD	21/07/2016	N/A	N/A	40.00		yes	
SW7 SW7	downstream	Chlorides (as Cl)	nH	21/07/2016	N/A 6-9	N/A All values < ELV	32.31		yes	
SW7	downstream		Total Ammonia	24/08/2016	6-9	All values < ELV All results < 1.2 x ELV	0.50		yes yes	
SW7	downstream		Conductivity	24/08/2016	750	All results < 1.2 x ELV	164.00		yes	
SW7	downstream		Suspended Solids	24/08/2016	N/A	N/A	4.00	pro/ 011 C 2000	yes	
SW7	downstream		COD	24/08/2016	N/A	N/A	35.00		yes	
SW7	downstream	Chlorides (as Cl)		24/08/2016	N/A	N/A	33.21	mg/L	yes	
SW7	downstream		рН	19/09/2016	6-9	All values < ELV	6.40		yes	
SW7	downstream		Total Ammonia	19/09/2016	1	All results < 1.2 x ELV	0.60) mg/L	yes	
SW7	downstream		Conductivity	19/09/2016	750	All results < 1.2 x ELV	169.00		yes	
SW7	downstream		Suspended Solids	19/09/2016	N/A	N/A	4.00		yes	
SW7	downstream		COD	19/09/2016	N/A	N/A	39.00		yes	
SW7		Chlorides (as Cl)	-11	19/09/2016	N/A	N/A	33.71		yes	
SW7	downstream		pH Tetel Ammenia	04/11/2016	6-9	All values < ELV	6.60		yes	
SW7 SW7	downstream downstream		Total Ammonia Conductivity	04/11/2016 04/11/2016	1 750	All results < 1.2 x ELV All results < 1.2 x ELV	1.27		yes yes	
SW7	downstream		Suspended Solids	04/11/2016	750 N/A	N/A	3.00		yes	
SW7	downstream		COD	04/11/2016	N/A	N/A N/A	31.00		yes	
SW7		Chlorides (as Cl)		04/11/2016	N/A	N/A N/A	29.36		yes	
SW7	downstream		Boron	25/11/2016	N/A	N/A	0.02		yes	
				., .,	<i>/···</i>		0:01	.04.	100	

Let 1 <t< th=""><th>AFR Monitori</th><th>ng returns si</th><th>Immary template-WATEP /W/AC</th><th>TEW/ATER(SEW/ER)</th><th></th><th></th><th>Lic No:</th><th>W0089-02</th><th></th><th>Year</th><th>2016</th></t<>	AFR Monitori	ng returns si	Immary template-WATEP /W/AC	TEW/ATER(SEW/ER)			Lic No:	W0089-02		Year	2016
ImageNote:Note:Note:Note:Note:Note:Note:111 <t< th=""><th></th><th></th><th></th><th>TEWATER(SEWER)</th><th>25/11/2016</th><th></th><th></th><th></th><th>.ug/l</th><th></th><th>2010</th></t<>				TEWATER(SEWER)	25/11/2016				.ug/l		2010
N No. No. No. No. No. No. No. N No. No. No. No. No. No. No. N No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. <td< td=""><td></td><td></td><td>cadmium and compounds (as Cd)</td><td>Calcium</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			cadmium and compounds (as Cd)	Calcium							
ViewV			Chromium and compounds (as Cr)	Calcium							
No. <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
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Norm Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Number Norm Nu	SW7	downstream	Lead and compounds (as Pb)				N/A				
No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. N	SW7	downstream		Magnesium	25/11/2016	N/A	N/A	3.85		yes	
SectorMetry is a probability of probabil				Manganese (as Mn)							
Normal 1000Normanus(no)Normanus(n			Nickel and compounds (as Ni)								
Normal symbolsNormal symbols <t< td=""><td></td><td></td><td></td><td>Potassium</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>				Potassium							
Norm Norm Norm Norm Norm Norm Norm Norm Norm 10 4 mm Norm Norm Norm Norm Norm Norm Norm 10 4 mm Norm Norm <td></td>											
NormalNorm			Mercury and compounds (as Hg)	Culabata							
Norm 104 More Norm More Norm Norm Norm Norm Norm 104 More Norm More Norm Norm Norm Norm Norm 104 More Norm Norm </td <td></td> <td></td> <td>Total phosphorus</td> <td>Sulphate</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			Total phosphorus	Sulphate							
Note: <th< td=""><td></td><td></td><td>Total prospriorus</td><td>Total Ammonia</td><td></td><td></td><td></td><td></td><td>mg/INH3</td><td></td><td></td></th<>			Total prospriorus	Total Ammonia					mg/INH3		
Normal <td></td> <td></td> <td>Chlorides (as Cl)</td> <td>Total / united a</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			Chlorides (as Cl)	Total / united a							
NumberNotes is for the second se				Conductivity							
NumberNotes is for the second se		upstream					All results < 1.2 x ELV				
No.Normal Norm	SW8	upstream	Chlorides (as Cl)		21/04/2016	N/A	N/A	40.01			
NomeNomeNomeNomeNomeNomeNomeNomeNomeNomeNome100Nome </td <td></td> <td>upstream</td> <td></td> <td></td> <td></td> <td>750</td> <td></td> <td></td> <td></td> <td>yes</td> <td></td>		upstream				750				yes	
SolutionConductor ConjugConductor ConjugConductor ConjugConductor ConjugConductor ConjugConductor ConjugCo				Total Ammonia							
NoteNumber			Chlorides (as Cl)								
NoteInternet componds (a.C.)Internet componds (a.C.)Internet componds (a.C.)Number of the com											
908907 908909908908908908908											
NormalNorm			Cadmium and compounds (as Cd)	Boron							
SystemOpenson testOpenson tes			caumum and compounds (as Cd)	Calcium							
SeriesSeri			Chromium and compounds (as Cr)	Calcium							
NormalNormalNormalNormalNormalNormalNormalNormalNormalNormalNormal100SouthersNormal											
Note:UnitabilityUnitabilityNumber <td></td> <td></td> <td></td> <td>Iron</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				Iron							
NoteUnity			Lead and compounds (as Pb)								
NoteNoteNANACADOS<	SW8			Magnesium							
NoteUpticeRead components (s. M)PatholeN/AN/AAA	SW8	upstream		Manganese (as Mn)		N/A			μg/I	yes	
SystemJournam <th< td=""><td></td><td>upstream</td><td>Nickel and compounds (as Ni)</td><td></td><td></td><td></td><td></td><td></td><td>μg/I</td><td>yes</td><td></td></th<>		upstream	Nickel and compounds (as Ni)						μg/I	yes	
Nome Important Amongoundia (and particle) Variable <				Potassium						yes	
Nome uppersent State State <tt>State</tt> <tt>State</tt>											
NumberUpper Uppe			Mercury and compounds (as Hg)								
Number Supprime Notices (as C) Total Ammonia Syl/1/2005 N/A All results < 1.2 kUV O.1.3 mg/l NH3 Upprime SW8 upprime Notices (as C) Canductivity 2/11/2016 N/A All results < 1.2 kUV				Sulphate							
Nome Unders (an) Chorde (an) Choree (an) Chorde (an) <thc< td=""><td></td><td></td><td>Total phosphorus</td><td>Total America</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thc<>			Total phosphorus	Total America							
NMB upstram Conductivity 25/11/2015 71/20 All results 2.2 x E.V 71/20 mpl mpl SVM9 upstram Chordes (s.G) 28/01/2015 N/A			Chloridos (as Cl)	Total Ammonia							
Sive upstream Chorades (as C) Conductivity 23/0/7016 N/A N/A 33.7 mg/l yes Sive upstream Conductivity 23/0/7016 N/A N/A 33.7 mg/l yes Sive upstream Conductivity 23/0/7016 1 All results 12.2 kU 14.0 yes Sive upstream Choride (as C) Conductivity 21/0/7016 N/A N/A 65.5 mg/l yes Sive upstream Choride (as C) Conductivity 21/0/7016 N/A N/A 65.5 mg/l yes Sive upstream Choride (as C) Conductivity 21/0/7016 N/A N/A 52.5 mg/l yes Sive upstream Chorides (as C) Conductivity 21/0/7016 N/A N/A 60.5 mg/l yes Sive upstream Chorides (as C) Conductivity 21/0/7016 N/A N/A 0.05 mg/l yes			chlorides (as cr)	Conductivity							
90%uptramChloride (s (r))mChloride (s (r))mChloride (s (r))mM39.37mm </td <td></td>											
Wind Upptram Conductivity 28/01/2016 All results 12 x EV 1.04 µ/cm @200C yes SW0 Upptram Choirds (as C) CalaAmonia 21/04/2016 All results 12 x EV 0.09 mg/l NH3 yes SW0 Upptram Choirds (as C) Canductivity 21/04/2016 N/A N/A 69.55 mg/l ves SW0 Upptram Choirds (as C) Canductivity 21/07/2016 All results 12 x EV 0.016 mg/l NH3 Ves SW0 Upptram Choirds (as C) Canductivity 21/07/2016 N/A N/A 52.55 mg/l ves SW0 Upptram Conductivity 21/07/2016 N/A N/A 50.70 mg/l ves SW0 Upptram Canductivity 21/07/2016 N/A N/A 60.70 mg/l ves SW0 Upptram Canductivity 21/07/2016 N/A N/A 21/07/201 mg/l ves SW0 Upptram C			Chlorides (as Cl)								
SW9 upstream Cholnde (sc) Cholnde (sc) 21/04/2016 NA NA 69.59 mg/l NH3 yes SW9 upstream Conductivity 21/04/2016 NA NA 69.59 mg/l NH3 yes SW9 upstream Conductivity 21/04/2016 TS0 All results <1.2 k LV				Conductivity							
SW9 upstream Conductivity 21/04/2016 750 All results < 1.2 x EV 0.235 µ5/cm @200C yes SW9 upstream Choloides (as C) 21/07/2016 N/A N/A 525 mg/l yes SW9 upstream Choloides (as C) Conductivity 21/07/2016 N/A N/A 5255 mg/l yes SW9 upstream Conductivity 21/07/2016 N/A N/A 5205 yes SW9 upstream Calcium 21/07/2016 N/A N/A 0.09 mg/l yes SW9 upstream Calcium 21/07/2016 N/A N/A 0.09 mg/l yes SW9 upstream Calcium 21/07/2016 N/A N/A 12.17 mg/l yes SW9 upstream Compounds (as C/) 21/07/2016 N/A N/A 12.17 mg/l yes SW9 upstream Compounds (as C/) 21/07/2016 N/A N/A	SW9	upstream		Total Ammonia	21/04/2016	1	All results < 1.2 x ELV	0.09	mg/I NH3		
SM9 uptream Conductivity Z1/07/201 All results 2.2 KUV Cl23 ufs/cm 2000 (mg/ NH3 mg/ SM9 uptream Conductivity Z1/07/201 N/A N/A N/A SM2 mg/ NH3 Mean SM9 uptream Conductivity Z1/07/201 N/A N/A SM2 Mean All SM9 uptream Conductivity Z1/07/201 N/A N/A SM2 Mean All SM9 uptream Conductivity Z1/07/201 N/A N/A SM2 Mean All SM9 uptream Gominand compounds(acf) Born Z1/07/201 N/A N/A CA MAN Mean Mean SM9 uptream Gominand compounds(acf) Informand Z1/07/2016 N/A N/A All Mean Mean SM9 uptream Edad compounds(acf) Informand Z1/07/2016 N/A N/A MAN Mean Mean SM9 uptream Eda		upstream	Chlorides (as Cl)						mg/l	yes	
SW9uptramUptramOndeds (ac)UptramCududry21/07/2016N/AN/AS2.55mg/hyesHSW9uptramSoshed Oxgen21/07/2016N/AAl results 12/12/12mg/hvesISW9uptramCalmiun and compounds (as Cd)Boron21/07/2016N/AN/A0.043mg/hvesISW9uptramCalmiun and compounds (as Cd)Calciun21/07/2016N/AN/A0.042mg/hvesISW9uptramCormiun and compounds (as Cd)Calciun21/07/2016N/AN/A0.042mg/hvesISW9uptramCormiun and compounds (as Cd)I21/07/2016N/AN/A0.23gg/hvesISW9uptramCormiun and compounds (as Cd)I21/07/2016N/AN/A0.23gg/hvesISW9uptramCormiun and compounds (as Cd)I21/07/2016N/AN/A0.23gg/hvesISW9uptramModemonds (as Pb)I21/07/2016N/AN/A0.240.000gg/hvesISW9uptramMoreande Sarbin21/07/2016N/AN/A-0.20gg/hIISW9uptramNace And Compounds (as Ph)Magesien21/07/2016N/AN/A-0.00ig/hIIISW9uptramIncandomonds (as Ph)21/07/2016N/A		upstream							µS/cm @20oC		
SW9 upstream Conductivity 21/07/2016 N70 All results<1.2.8.1.1.1 M70 M70 M70 M70 M70 SW9 upstream Gandum and compounds (act) Boron 21/07/2016 N/A N/A 0.00 mg/l yes SW9 upstream Gandum and compounds (act) Boron 21/07/2016 N/A N/A <0.00				Total Ammonia	21/07/2016	-					
SW9 upstream Dissolved Oxygen 21/07/2016 N/A N/A S.07 mg/l 02 yes SW9 upstream Calmium and compounds (as Cd) 21/07/2016 N/A N/A 0.09 mg/l yes SW9 upstream Calmium and compounds (as Cd) 21/07/2016 N/A N/A <20.00			Chlorides (as Cl)		21/07/2016						
SW9upstreamupstreamlondBoran21/07/2016N/AN/A0.009mg/nyes1000SW9upstreamCalcium and compounds (ac Cl)Calcium21/07/2016N/AN/A-20.000µg/nyes1000SW9upstreamChromium and compounds (ac Cl)Calcium21/07/2016N/AN/A12.02mg/nyes1000SW9upstreamCoper and compounds (ac Cl)1000/2016N/AN/A3.23µg/nyes1000SW9upstreamCompounds (ac Cl)1000/2016N/AN/A3.23µg/nyes1000SW9upstreamCompounds (ac Cl)1000/2016N/AN/A3.23µg/nyes1000SW9upstreamIconopounds (ac Nl)21/07/2016N/AN/A3.20µg/nyes1000SW9upstreamNach and compounds (ac Nl)21/07/2016N/AN/A3.20µg/nyes1000SW9upstreamNach and compounds (ac Nl)21/07/2016N/AN/A3.20µg/nyes1000SW9upstreamNickel and compounds (ac Nl)21/07/2016N/AN/A3.20µg/nyes1000SW9upstreamNickel and compounds (ac Nl)21/07/2016N/AN/A3.20µg/nyes1000SW9upstreamNickel and compounds (ac Nl)21/07/2016N/AN/A3.20µg/nyes1000 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
SW9 upstream Cadmium and compounds (as Cd) 21/07/2016 N/A N/A <20.000 µµ/I yes SW9 upstream Chromium and compounds (as Cr) Calcium 21/07/2016 N/A N/A 12.7 mg/I yes SW9 upstream Chromium and compounds (as Cr) Cloroll 21/07/2016 N/A N/A 23 µµ/I yes SW9 upstream Chromium and compounds (as Cu) Copper and compounds (as Cu) Copper and compounds (as Cu) Copper and compounds (as Cu) 21/07/2016 N/A N/A 32 µµ/I yes SW9 upstream Lead and compounds (as Pb) Con 21/07/2016 N/A N/A 34.8 mg/I yes SW9 upstream Lead and compounds (as Pb) 21/07/2016 N/A N/A 34.9 µ/I yes SW9 upstream Magnese (as Mn) 21/07/2016 N/A N/A 420.000 µµ/I yes SW9 upstream Nickel and compounds (as N) 21											
SW9upstreamupstreamCalclum21/07/2016N/AN/A12.7mg/lyesSW9upstreamCopper and compounds (as Cr)21/07/2016N/AN/A23µg/lyesSW9upstreamCopper and compounds (as Cu)21/07/2016N/AN/A32µg/lyesSW9upstreamcompounds (as Cu)21/07/2016N/AN/A34gradyesSW9upstreamLad and compounds (as Pb)21/07/2016N/AN/A42000µg/lyesSW9upstreamLad and compounds (as Pb)21/07/2016N/AN/A42000µg/lyesSW9upstreamMagnesium21/07/2016N/AN/A42000µg/lyesSW9upstreamNagnesie (as Mn)21/07/2016N/AN/A42000µg/lyesSW9upstreamNickel and compounds (as Ni)21/07/2016N/AN/A420.000µg/lyesSW9upstreamNickel and compounds (as An)21/07/2016N/AN/A420.000µg/lyesSW9upstreamMaced compounds (as Ch)21/07/2016N/AN/A420.000µg/lyesSW9upstreamMaced compounds (as Ch)21/07/2016N/AN/A41.000µg/lyesSW9upstreamMaced compounds (as Ch)21/07/2016N/AN/A41.000µg/lyesSW9upstreamMaced compounds (as An)<			Contractions and an annual state of the	Boron							
SW9upstreamChromium and compounds (as Cy) $21/07/2016$ N/AN/A 23 µg/lyesSW9upstreamcompounds (as Cu)Iron $21/07/2016$ N/AN/A 34.5 µg/lyesSW9upstreamLed and compounds (as Pb)Iron $21/07/2016$ N/AN/A 34.5 µg/lyesSW9upstreamLed and compounds (as Pb)1 $21/07/2016$ N/AN/A 34.5 µg/lyesSW9upstreamMagnesium $21/07/2016$ N/AN/A <20.000 µg/lyesSW9upstreamMagnesium $21/07/2016$ N/AN/A <20.000 µg/lyesSW9upstreamNickel and compounds (as Ni) $21/07/2016$ N/AN/A <10.000 µg/lyesSW9upstreamNact compounds (as Ni) $21/07/2016$ N/AN/A <10.000 µg/lyesSW9upstreamNact compounds (as Right $21/07/2016$ N/AN/A <10.000 µg/lyesSW9upstreamTotal phosphorus $21/07/2016$ N/AN/A <10.000 <			caumium and compounds (as Cd)	Calcium							
SW9upstreamcopper and compounds (as Cu)10021/07/2016N/AN/A32µg/lyesSW9upstreamLead and compounds (as Pb)1007/2016N/AN/A34.5mg/lyesSW9upstreamLead and compounds (as Pb)21/07/2016N/AN/A<20.00			Chromium and compounds (as Cr)	calcium							
SW9 upstream inspace iron 21/07/2016 N/A N/A 34.5 mg/l yes SW9 upstream Lead and compounds (as Pb) 21/07/2016 N/A N/A <20.000											
SW9upstreamLead and compounds (as Pb)N/A21/07/2016N/AN/A < 20.000 $\mu g/l$ yesSW9upstreamMagnesium21/07/2016N/AN/A 5.28 $m g/l$ yesSW9upstreamManganese (as Mn)21/07/2016N/AN/A 8.30 $\mu g/l$ yesSW9upstreamNickel and compounds (as NI)21/07/2016N/AN/A 8.30 $\mu g/l$ yesSW9upstreamNickel and compounds (as NI)21/07/2016N/AN/A < 3.00 $\mu g/l$ yesSW9upstreamZinc and compounds (as Zn)21/07/2016N/AN/A < 1.03 $m g/l$ yesSW9upstreamZinc and compounds (as Zn)21/07/2016N/AN/A < 1.03 $\mu g/l$ yesSW9upstreamMercury and compounds (as Zh)21/07/2016N/AN/A < 1.000 $\mu g/l$ yesSW9upstreamTotal phosphorus21/07/2016N/AN/A < 1.000 $\mu g/l$ yesSW9upstreamCholrides (as Cl)Chal Ammonia $25/1/2016$ N/A N/A < 1.02 $m g/l$ yesSW9upstreamCholrides (as Cl) $< 25/1/2016$ N/A N/A < 1.002 $m g/l$ yesSW9upstreamCholrides (as Cl) $< 25/1/2016$ N/A N/A < 1.002 $m g/l$ yesSW9upstreamCholrides (as Cl) $< 25/1/2016$ N/A N/A < 4			sepper and compounds (us ed)	Iron							
SW9 upstream Magnesium 21/07/2016 N/A N/A 5.28 mg/l yes SW9 upstream Nickel and compounds (as NI) 21/07/2016 N/A N/A 8/30 µg/l yes SW9 upstream Nickel and compounds (as NI) 21/07/2016 N/A N/A <20.00			Lead and compounds (as Pb)								
SW9 upstream Manganese (as Mn) 21/07/2016 N/A N/A 830 µg/l yes SW9 upstream Nockel and compounds (as NI) 0 21/07/2016 N/A N/A < 20.00 µg/l yes SW9 upstream Potassium 21/07/2016 N/A N/A < 20.00 µg/l yes SW9 upstream Cond compounds (as Zn) 21/07/2016 N/A N/A < 10.30 µg/l yes SW9 upstream Mcrury and compounds (as Ag) 21/07/2016 N/A N/A < 10.30 µg/l yes SW9 upstream Mcrury and compounds (as Hg) 21/07/2016 N/A N/A < 10.00 µg/l yes SW9 upstream Mcrury and compounds (as Hg) Sulphate $21/07/2016$ N/A N/A < 10.02 mg/l S04 yes SW9 upstream Total phosphorus 21/07/2016 N/A N/A < 10.2 mg/l NH SW9 upstrea	SW9			Magnesium							
SW9 upstream Nickel and compounds (as NI) Q. (2)/07/2016 N/A N/A <20.000 µg/l yes SW9 upstream Zin and compounds (as ZN) Potasium 21/07/2016 N/A N/A 16.33 mg/l yes SW9 upstream Zin and compounds (as ZN) 21/07/2016 N/A N/A 16.33 µg/l yes SW9 upstream Mercury and compounds (as Hg) 21/07/2016 N/A N/A 4.0000 µg/l yes SW9 upstream Otal phosphorus 21/07/2016 N/A N/A 4.0000 µg/l yes SW9 upstream Total phosphorus 21/07/2016 N/A N/A 5.011 mg/l yes SW9 upstream Total phosphorus 21/07/2016 N/A N/A 5.012 mg/l yes SW9 upstream Total phosphorus 21/07/2016 N/A N/A 40.00 mg/l yes SW9 upstream Chorides (as							N/A				
SW9upstreamPotassiumPotassium21/07/2016N/AN/A $(-1, -3)$ mg/lyesSW9upstreamCarconounds (as Zn) $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ SW9upstreamMcompounds (as Hg) $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ SW9upstreamSulphosrusSulphate $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ SW9upstreamGal phosphorusTotal Amonia $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ SW9upstreamChorides (as Cl) $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ SW9upstreamChorides (as Cl) $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ SW9upstreamChorides (as Cl) $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ SW9upstreamChorides (as Cl) $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$ $(-2, -1)$	SW9		Nickel and compounds (as Ni)					<20.000			
SW9 upstream Mercury and compounds (as Hg) 0 21/07/2016 N/A N/A <10000 µg/l Yes SW9 upstream Total phosphorus 21/07/2016 N/A N/A 5.11 mg/l S0.4 yes SW9 upstream Total phosphorus 21/07/2016 N/A N/A 1.02 mg/l P yes SW9 upstream Total phosphorus Total Ammonia 25/11/2016 1 All results r.1.2 x ELV 0.09 mg/l P yes SW9 upstream Chorides (as Cl) 25/11/2016 1 All results r.1.2 x ELV 0.09 mg/l Nes				Potassium					mg/l		
SW9 upstream rotal phosphorus Sulphate 21/07/2016 N/A N/A 5.11 mg/l SO4 yes SW9 upstream Total phosphorus 21/07/2016 N/A N/A 10.2 mg/l P yes SW9 upstream Total Ammonia 25/11/2016 1 All results < 1.2 x EU											
SW9 upstream Total phosphorus 21/07/2016 N/A N/A 10.2 mg/P yes SW9 upstream Chorides (as CI) Total Annonia 25/11/2016 1 All results < 1.2 x ELV			Mercury and compounds (as Hg)								
SW9 upstream Total Ammonia 25/11/2016 1 All results < 1.2 x ELV 0.09 mg/l NH3 yes SW9 upstream Chlorides (as Cl) 25/11/2016 N/A N/A 49.04 mg/l yes				Sulphate							
SW9 upstream Chlorides (as Cl) 25/11/2016 N/A N/A 49.04 mg/l yes			Total phosphorus	Total Assessio							
			Chloridos (as Cl)	rotal Ammonia							
Stars obstream Foundativity 73/11/5010 1.30 Viii LE2010 1/2 1/3 h2/11/600 Acc			chiondes (as CI)	Conductivity							
	3403	apstream		conductivity	-3/11/2010	750	A THE SUILS & 1.2 A ELV	1/5	µ0/cm @2000	yes	

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

AER Monitoring returns summary template-WAT	IER	(/WAS	IEWA	ALERIS	EWERI
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W0089-02

2016

Year

Lic No:

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

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

	Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of			
4	Table W3 below	SELECT	Additional information	
	Was all monitoring carried out in accordance with EPA guidance and			
c	necklists for Quality of Aqueous Monitoring Data Reported to the EPA? If External /Internal Lab Assessment	of		
n	please detail what areas require improvement in additional information Quality checklist results check	IST SELECT		

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

Emission	Emission			Frequency of		licence or any revision			Unit of			Procedural	reference	Annual mass load	
reference no:	released to	Parameter/ SubstanceNote 1	Type of sample	monitoring	Averaging period	therof ^{Note 2}	Licence Compliance criteria	Measured value	measurement	Compliant with licence	Method of analysis	reference source	standard number	(kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			
Note 1: Volume	Note 1: Volumetric flow shall be included as a reportable parameter														

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

5 Continuous monitoring

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

Additional Information

ervice & Maintenance contract in place

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission ⁶ Limit Value (ELV)

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

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

Did abatement system bypass occur during the reporting year? If yes please complete table W5 below Table W4: Summary of average emissions -continuous monitoring

Emission reference no:	Emission released to		ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria		Annual Emission for current reporting year (kg)	vear	Monitoring Equipment downtime (hours)	Number of ELV exceedences in	Comments
SW7	Water	volumetric flow	N/A	1 hour	N/A	l/s	N/A	N/A	0	0	Volumes not required to be recorded/calculated
SW7	Water	pH	6-9	1 hour	All values < ELV	pH units	N/A	N/A	0	0	
SW7	Water	Temperature	N/A	1 hour	N/A	degrees C	N/A	N/A	0	0	
SW7	Water	Conductivity	750	1 hour	All values < ELV	µS/cm @20oC	N/A	N/A	0	0	
SW7	Water	Ammonia (as N)	1	1 hour	All values < ELV	mg/L	N/A	N/A	0	0	Volumes not required to be recorded/calculated
SW7	Water	Total organic carbon (TOC) (as total C or COD/3)	60	1 hour	All values < ELV	ppm	N/A	N/A	0	0	Volumes not required to be recorded/calculated

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template Lic No: W0089-02 Year 2016	
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	
1 listed in the table below, please include all bunds outside the licenced testing period(mobile bunds and chemstore included) Yes	
2 Please provide integrity testing frequency period 3 years	
Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to	
3 "Chemstore" type units and mobile bunds) Yes	
4 How many bunds are on site? 1	
5 How many of these bunds have been tested within the required test schedule? 1	
6 How many mobile bunds are on site? 0	
7 Are the mobile bunds included in the bund test schedule? N/A	
8 How many of these mobile bunds have been tested within the required test schedule? N/A	
9 How many sumps on site are included in the integrity test schedule? N/A	
10 How many of these sumps are integrity tested within the test schedule? N/A	
Please list any sump integrity failures in table B1	
11 Do all sumps and chambers have high level liquid alarms? Yes	
12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme? Yes	
13 Is the Fire Water Retention Pond included in your integrity test programme? N/A	

	lab	ne b1: Summary details o	a bund / containment structure inte	egrity test											
	Bund/Containment	Туре	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?		Integrity test failure explanation <50 words		Scheduled date	Results of retest(if in current reporting year
		SELECT					SELECT				SELECT		SELECT		
F		SELECT					SELECT				SELECT		SELECT		
* Capacity required should comply with 25% or 110% containment rule addetailed in your licence Has integrity testing been carried out in accordance with licence requirements and are all structures tested								Commentary							
15 i	15 in line with BS8007/EPA Guidance? bunding and storage guidelines						Yes								
16 A	16 Are channels/transfer systems to remote containment systems tested?					Yes		ĺ							
17	7 Are channels/transfer systems compliant in both integrity and available volume?						Yes								

Pipeline/underground structure testing

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

Yes	
2 110 200	
3 years	

1	Table I	B2: Summary details of pi	ipeline/underground structures ir	ntegrity test]				
	Structure ID	Type system		Does this structure have Secondary containment?	Type of secondary containment	Integrity reports maintained on site?			Results of retest(if in cur reporting year)
		SELECT	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT

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

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Groundw	vater/Soil	monitori	ing temp	late
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Lic No: W0089-02

Year

2016

		Comments	
¹ Are you required to carry out groundwater monitoring as part of your licence requirements?	yes		Please provide an interpretation of groundwater monitoring data in the
2 Are you required to carry out soil monitoring as part of your licence requirements?	no		interpretation box below or if you require additional space please include a
³ Do you extract groundwater for use on site? If yes please specify use in comment section	no		groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
Do monitoring results show that groundwater generic assessment criteria such 4 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. template	yes		
5 Is the contamination related to operations at the facility (either current and/or historic)	yes		
6 Have actions been taken to address contamination issues? If yes please summarise remediation			
strategies proposed/undertaken for the site	yes		
7 Please specify the proposed time frame for the remediation strategy	N/A		Groundwater contamination is evident at monitoring locations on the
8 Is there a licence condition to carry out/update ELRA for the site?	yes		western boundary of the site. Investigation and assessment of the
9 Has any type of risk assesment been carried out for the site?	yes		contamination was updated in October 2015. Ongoing monitoring will ensure
10 Has a Conceptual Site Model been developed for the site?	yes		that any further deterioration and/or off site impacts will be detected.
11 Have potential receptors been identified on and off site?	yes		Reports, including a groundwater risk assessment, are uploaded to EDEN.
12 Is there evidence that contamination is migrating offsite?	no		Extent of contamination seems to have stabilised during 2016.

Table 1: Upgradient Groundwater monitoring results

										Upward trend in
										pollutant
	Sample				Maximum					concentration
Date of	location	Parameter/		Monitoring	Concentration+	Average				over last 5 years
sampling	reference	Substance		frequency	+		unit	GTV's*	SW EQS	of monitoring data
28/01/2016	GW4	Total ammonia	Konelab Aquakem	Quarterly	0.99	0.1	mg/l NH3	0.065-0.175	< 0.014	-
28/01/2016	GW4	Conductivity	Electrometry	Quarterly	333	316	μS/cm @20oC	800-1875	N/A	no
21/04/2016	GW4	Total ammonia	Konelab Aquakem	Quarterly		0.07	mg/l NH3	0.065-0.175	< 0.014	no
21/04/2016	GW4	Conductivity	Electrometry	Quarterly		309	μS/cm @20oC	800-1875	N/A	no
21/07/2016	GW4	Total ammonia	Konelab Aquakem	Quarterly		0.07	mg/l NH3	0.065-0.175	< 0.014	no
21/07/2016	GW4	Conductivity	Electrometry	Quarterly		333	μS/cm @20oC	800-1875	N/A	no
21/07/2016	GW4	Chloride	Konelab Aquakem	Annual		31.35	mg/l	24-187.5	250	no
21/07/2016	GW4	Boron	ICP-MS	Annual		0.01	mg/l	0.75	N/A	no
21/07/2016	GW4	Cadmium	ICP-MS	Annual		<20.000	μg/l	3.75	N/A	no
21/07/2016	GW4	Calcium	ICP-MS	Annual		56.4	mg/l	N/A	N/A	no
21/07/2016	GW4	Chromium (total)	ICP-MS	Annual		<20.000	μg/l	37.5	4.7	no
21/07/2016	GW4	Copper	ICP-MS	Annual		<20.000	μg/l	1500	5	no
21/07/2016	GW4	Iron	ICP-MS	Annual		748	μg/l		N/A	no
21/07/2016	GW4	Lead	ICP-MS	Annual		<20.000	μg/l	18.75	7.2	no
21/07/2016	GW4	Magnesium	ICP-MS	Annual		3.98		N/A	N/A	no
21/07/2016	GW4	Manganese	ICP-MS	Annual		525	μg/l	N/A	N/A	no
21/07/2016	GW4	Nickel	ICP-MS	Annual		<20.000	μg/l	15	20	no
21/07/2016	GW4	Potassium	ICP-MS	Annual		0.58	mg/l	N/A	N/A	no
21/07/2016	GW4	Zinc	ICP-MS	Annual		77	μg/l	N/A	40	no
		Cyanide (total)	Steam Distillation &	Annual		12		37.5	10	
21/07/2016	GW4	Cyanide (total)	Colourimetry	Annual		12	μg/I	57.5	10	no
21/07/2016	GW4	Flouride	Konelab Aquakem	Annual		<0.020	0/	N/A	0.5	no
21/07/2016	GW4	Mercury	ICP-MS	Annual		<10.000	μg/l			no
21/07/2016	GW4	Sulphate	Konelab Aquakem	Annual		11.74	mg/l SO4	187.5	N/A	no

iroundwat	ter/Soil mo	onitoring template	2		Lic No:	W0089-02		Year	2016
21/07/2016		Total Phosphorous	ICP-MS	Annual		0.16	mg/l P		
25/11/2016		Total ammonia	Konelab Aquakem	Quarterly		0.99	mg/l NH3		<0.014 no
25/11/2016	GW4	Conductivity	Electrometry	Quarterly		251	μS/cm @20oC	800-1875	N/A no
28/01/2016	GW8	Total ammonia	Konelab Aquakem	Quarterly	0.48	-	mg/l NH3	0.065-0.175	<0.014 yes
28/01/2016		Conductivity	Electrometry	Quarterly	506		μS/cm @20oC	800-1875	N/A yes
21/04/2016	GW8	Total ammonia	Konelab Aquakem	Quarterly		0.2	mg/l NH3	0.065-0.175	<0.014 yes
21/04/2016	GW8	Conductivity	Electrometry	Quarterly		278	μS/cm @20oC	800-1875	N/A yes
21/07/2016	GW8	Total ammonia	Konelab Aquakem	Quarterly		0.22	mg/l NH3	24-187.5	250 yes
21/07/2016	GW8	Conductivity	Electrometry	Quarterly		318	μS/cm @20oC	0.75	N/A yes
21/07/2016	GW8	Chloride	Konelab Aquakem	Annual		45.33	mg/l	3.75	N/A yes
21/07/2016	GW8	Boron	ICP-MS	Annual		0.02	mg/l	N/A	N/A no
21/07/2016	GW8	Cadmium	ICP-MS	Annual		<20.000	μg/l	37.5	4.7 no
21/07/2016		Calcium	ICP-MS	Annual		27.5	mg/l	1500	5 no
21/07/2016	GW8	Chromium (total)	ICP-MS	Annual		<20.000	μg/l		N/A no
21/07/2016	GW8	Copper	ICP-MS	Annual		<20.000	μg/l	18.75	7.2 no
21/07/2016	GW8	Iron	ICP-MS	Annual		2641	μg/l	N/A	N/A no
21/07/2016	GW8	Lead	ICP-MS	Annual		<20.000	μg/l	N/A	N/A no
21/07/2016	GW8	Magnesium	ICP-MS	Annual		6.79	mg/l	15	20 no
21/07/2016	GW8	Manganese	ICP-MS	Annual		2150	μg/l	N/A	N/A no
21/07/2016	GW8	Nickel	ICP-MS	Annual		<20.000	μg/l	N/A	40 no
21/07/2016	GW8	Potassium	ICP-MS	Annual		0.85	mg/l	37.5	10 no
21/07/2016	GW8	Zinc	ICP-MS	Annual		356	μg/I	N/A	0.5 no
21/07/2016	GW8	Cyanide (total)	Steam Distillation &	Annual		3	μg/l		no
21/07/2016	GW8	Flouride	Konelab Aquakem	Annual		0.22	mg/l	187.5	N/A no
21/07/2016	GW8	Mercury	ICP-MS	Annual		<10.000	μg/l	N/A	0.075 no
21/07/2016	GW8	Sulphate	Konelab Aquakem	Annual		8.32	mg/l SO4	0.065-0.175	<0.014 no
21/07/2016	GW8	Total Phosphorous	ICP-MS	Annual		0.31	mg/l P	800-1875	N/A no
25/11/2016	GW8	Total ammonia	Konelab Aquakem	Quarterly		0.48	mg/l NH3	0.065-0.175	<0.014 yes
25/11/2016	GW8	Conductivity	Electrometry	Quarterly		506	μS/cm @20oC	800-1875	N/A yes

.+ 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*		Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
28/01/2016	GW1	Total ammonia	Konelab Aquakem	Quarterly	0.27	0.27	mg/l NH3	0.065-0.175	<0.014	no
28/01/2016	GW1	Conductivity	Electrometry	Quarterly	211	211	μS/cm @20oC	800-1875	N/A	no
28/01/2016	GW2	Total ammonia	Konelab Aquakem	Quarterly	0.95	0.05	mg/l NH3	0.065-0.175	<0.014	yes
28/01/2016	GW2	Conductivity	Electrometry	Quarterly	270	204	μS/cm @20oC	800-1875	N/A	no
21/04/2016	GW2	Total ammonia	Konelab Aquakem	Quarterly		0.01	mg/l NH3	0.065-0.175	<0.014	yes
21/04/2016	GW2	Conductivity	Electrometry	Quarterly		270	μS/cm @20oC	800-1875	N/A	no
21/07/2016		Total ammonia	Konelab Aquakem	Quarterly		0.06	mg/l NH3	0.065-0.175	<0.014	yes
21/07/2016	GW2	Conductivity	Electrometry	Quarterly		212	pie/ e C = e e e	800-1875	N/A	no
21/07/2016	GW2	Chloride	Konelab Aquakem	Annual		11.86	mg/l	24-187.5	250	yes
21/07/2016	GW2	Boron	ICP-MS	Annual		0.01	mg/l	0.75	N/A	no
21/07/2016	GW2	Cadmium	ICP-MS	Annual		<20.000	μg/l	3.75	N/A	no
21/07/2016	GW2	Calcium	ICP-MS	Annual		30.6	mg/l	N/A	N/A	no
21/07/2016	GW2	Chromium (total)	ICP-MS	Annual		<20.000	101	37.5	4.7	no
21/07/2016	GW2	Copper	ICP-MS	Annual		<20.000	F-0/ -	1500	5	no
21/07/2016	GW2	Iron	ICP-MS	Annual		3580	μg/l		N/A	no
21/07/2016	GW2	Lead	ICP-MS	Annual		<20.000	μg/l	18.75	7.2	no
21/07/2016	GW2	Magnesium	ICP-MS	Annual		3.59	mg/l	N/A	N/A	no

		monitoring template	9		Lic No:	W0089-02		Year	2016	
21/07/2016		Manganese	ICP-MS	Annual		574	μg/l	N/A	N/A	no
21/07/2016		Nickel	ICP-MS	Annual		<20.000	μg/l	15	20	no
21/07/2016	GW2	Potassium	ICP-MS	Annual		2.13	mg/l	N/A	N/A	no
21/07/2016	GW2	Zinc	ICP-MS	Annual		564	μg/l	N/A	40	no
21/07/2016	GW2	Cyanide (total)	Steam Distillation & Colourimetry	Annual		1	μg/I	37.5	10	no
21/07/2010		Flouride	Konelab Aquakem	Annual		<0.020	mg/l	N/A	0.5	no
21/07/2016		Mercury	ICP-MS	Annual		<10.020	mg/l	IN/A	0.5	no
21/07/2016		Sulphate	Konelab Aquakem	Annual		9.05	<u> </u>	187.5	N/A	
21/07/2016	GWZ	Sulphate	Konelab Aquakem	Annual		9.05	mg/l SO4	187.5	N/A	no
			100.000			0.00				
21/07/2016		Total Phosphorous	ICP-MS	Annual		0.32	mg/l P	N/A	0.075	
25/11/2016		Total ammonia	Konelab Aquakem	Quarterly		0.95	mg/l NH3	0.065-0.175	< 0.014	,
25/11/2016		Conductivity	Electrometry	Quarterly		183	μS/cm @20oC	800-1875	N/A	
28/01/2016		Total ammonia	Konelab Aquakem	Quarterly	0.87	0.09	mg/l NH3	0.065-0.175	<0.014	
28/01/2016		Conductivity	Electrometry	Quarterly	341	185	μS/cm @20oC	800-1875	N/A	
21/04/2016		Total ammonia	Konelab Aquakem	Quarterly		0.04	mg/l NH3	0.065-0.175	< 0.014	
21/04/2016		Conductivity	Electrometry	Quarterly		341	μS/cm @20oC	800-1875		yes
21/07/2016		Total ammonia	Konelab Aquakem	Quarterly		0.09	mg/l NH3	0.065-0.175	<0.014	
21/07/2016		Conductivity	Electrometry	Quarterly		266	μS/cm @20oC	800-1875	N/A	
21/07/2016		Chloride	Konelab Aquakem	Annual		31.73	mg/l	24-187.5		yes
21/07/2016		Boron	ICP-MS	Annual		0.01	mg/l	0.75	N/A	
21/07/2016	GW5	Cadmium	ICP-MS	Annual		<20.000	μg/l	3.75	N/A	
21/07/2016	GW5	Calcium	ICP-MS	Annual		39.1	mg/l	N/A	N/A	no
21/07/2016		Chromium (total)	ICP-MS	Annual		<20.000	μg/l	37.5		no
21/07/2016	GW5	Copper	ICP-MS	Annual		<20.000	μg/l	1500	5	no
21/07/2016	GW5	Iron	ICP-MS	Annual		1660	μg/l		N/A	no
21/07/2016	GW5	Lead	ICP-MS	Annual		<20.000	μg/l	18.75	7.2	no
21/07/2016	GW5	Magnesium	ICP-MS	Annual		4.12	mg/l	N/A	N/A	no
21/07/2016		Manganese	ICP-MS	Annual	1	418	μg/l	N/A	N/A	
21/07/2016		Nickel	ICP-MS	Annual	1	<20.000	μg/l	, 15		no
21/07/2016		Potassium	ICP-MS	Annual		0.55	mg/l	N/A	N/A	
21/07/2016		Zinc	ICP-MS	Annual		351	μg/l	N/A	,	no
		Cyanide (total)	Steam Distillation &	Annual		4	μg/l	37.5	10	
21/07/2016			Colourimetry		-	0.000				no
21/07/2016		Flouride	Konelab Aquakem	Annual		< 0.020	mg/l	N/A	0.5	no
21/07/2016		Mercury	ICP-MS	Annual		<10.000	mg/l			no
21/07/2016	GW5	Sulphate	Konelab Aquakem	Annual		10.32	mg/l SO4	187.5	N/A	no
a . /or /			100 110							
21/07/2016		Total Phosphorous	ICP-MS	Annual		0.3	mg/l P	N/A	0.075	
25/11/2016		Total ammonia	Konelab Aquakem	Quarterly		0.87	mg/l NH3	0.065-0.175	<0.014	
25/11/2016		Conductivity	Electrometry	Quarterly		255	μS/cm @20oC	800-1875	N/A	
28/01/2016		Total ammonia	Konelab Aquakem	Quarterly	1.76	1.76	mg/l NH3	0.065-0.175	< 0.014	
28/01/2016		Conductivity	Electrometry	Quarterly	544	372	μS/cm @20oC	800-1875	N/A	
21/04/2016		Total ammonia	Konelab Aquakem	Quarterly		0.22	mg/l NH3	0.065-0.175	<0.014	
21/04/2016		Conductivity	Electrometry	Quarterly		544	μS/cm @20oC	800-1875		yes
28/01/2016		Total ammonia	Konelab Aquakem	Quarterly	26.67	36.37	mg/l NH3	0.065-0.175	<0.014	
28/01/2016		Conductivity	Electrometry	Quarterly	1054	948	μS/cm @20oC	800-1875		yes
21/04/2016		Total ammonia	Konelab Aquakem	Quarterly		35.51	mg/l NH3	0.065-0.175	<0.014	
21/04/2016	GW7	Conductivity	Electrometry	Quarterly		1054	μS/cm @20oC	800-1875	N/A	yes
	GW7	Total ammonia	Konelab Aquakem	Quarterly		21.86	mg/l NH3	0.065-0.175	<0.014	yes
21/07/2016	GW7	Conductivity	Electrometry	Quarterly		946	μS/cm @20oC	800-1875	N/A	yes
	1	Chloride	Konelab Aquakem	Annual		72.15	mg/l	24-187.5	250	yes
21/07/2016	GW7			Annual	1	0.12	mg/l	0.75	N/A	
21/07/2016		Boron	ICP-MS							
21/07/2016 21/07/2016	GW7		ICP-MS ICP-MS	Annual		<20.000	ug/l	3.75	N/A	no
21/07/2016 21/07/2016 21/07/2016 21/07/2016	6 GW7 6 GW7	Cadmium	ICP-MS	Annual		<20.000	μg/l mg/l			
21/07/2016 21/07/2016 21/07/2016 21/07/2016 21/07/2016	GW7 GW7 GW7	Cadmium Calcium	ICP-MS ICP-MS	Annual Annual		110.6	mg/l	N/A	N/A	no
21/07/2016 21/07/2016 21/07/2016 21/07/2016	GW7 GW7 GW7 GW7 GW7	Cadmium	ICP-MS	Annual					N/A 4.7	

	ter/Soil m	onitoring template	e		Lic No:	W0089-02		Year	2016			
21/07/2016	GW7	Lead	ICP-MS	Annual		<20.000	μg/l	18.75	7.2	no		_
21/07/2016	GW7	Magnesium	ICP-MS	Annual		13.5	mg/l	N/A	N/A	no		
21/07/2016	GW7	Manganese	ICP-MS	Annual		5973	μg/l	N/A	N/A	no		
21/07/2016	GW7	Nickel	ICP-MS	Annual		<20.000	μg/l	15	20	no		
21/07/2016	GW7	Potassium	ICP-MS	Annual		17.2	mg/l	N/A	N/A	no		
21/07/2016	GW7	Zinc	ICP-MS	Annual		246	μg/l	N/A	40	no		
21/07/2016	GW7	Cyanide (total)	Steam Distillation &	Annual		7	μg/l	37.5	10	no		
21/07/2016	GW7	Flouride	Konelab Aquakem	Annual		<0.020	mg/l	N/A	0.5	no		
21/07/2016	GW7	Mercury	ICP-MS	Annual		<10.000	mg/l			no		
21/07/2016	GW7	Sulphate	Konelab Aquakem	Annual		13.93	mg/l SO4	187.5	N/A	no		
21/07/2016	GW7	Total Phosphorous	ICP-MS	Annual		0.13	mg/l P	N/A	0.075	no		
25/11/2016	GW7	Total ammonia	Konelab Aquakem	Quarterly		23.52	mg/l NH3	0.065-0.175	<0.014	yes		
25/11/2016	GW7	Conductivity	Electrometry	Quarterly		1009	μS/cm @20oC	800-1875		yes		
results for a sub Monitor More informatio	bstance indica ring Guideline on on the use (f generic assessment criter tes that further interpreta Template Report at the lir of soil and groundwater st vailable in the EPA publishe	tion of monitoring results ik provided and submit se andards/ generic assessme	is required. In additic parately through ALD ent criteria (GAC)	on to completing th DER as a licensee ret	e above table, please turn or as otherwise in	complete the Groundwater		lwater monitori			
Vore information More information and risk assessm **Depending of e.g. if the site is	bstance indica ring Guideline on on the use i nent tools is a on location of s close to surfa	tes that further interpreta Template Report at the lir of soil and groundwater st vailable in the EPA publish the site and proximity to o	tion of monitoring results ik provided and submit se andards/ generic assessm ed guidance (see the link in ther sensitive receptors al ace Water Environmental	is required. In additic parately through ALD ent criteria (GAC) n G31) iternative Receptor b	on to completing th IER as a licensee ref Guidance of ased Water Quality WEQS), If the site is	e above table, please turn or as otherwise in in the Management standards should be u	complete the Groundwater structed by the EPA. of Contaminated Land and used in addition to the GTV		t EPA Licensed S		Drinking water (public, supply) standards	
Average Ave	bstance indica ring Guideline on on the use i nent tools is a on location of s close to surfa	tes that further interpreta Template Report at the lir of soil and groundwater st vailable in the EPA publish the site and proximity to o	tion of monitoring results ik provided and submit se andards/ generic assessm ed guidance (see the link in ther sensitive receptors al ace Water Environmental	is required. In additic parately through ALD ent criteria (GAC) n G31) Iternative Receptor b Quality Standards (SN	on to completing th IER as a licensee ref Guidance of ased Water Quality WEQS), If the site is	e above table, please turn or as otherwise in in the Management standards should be u	complete the Groundwater structed by the EPA. of Contaminated Land and used in addition to the GTV	Groundwater a	t EPA Licensed S Groundwater regulations	ites (EPA 2013). Drinking water (private supply)		Interim C Values (I

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

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

Environmental Liabilities template

Click here to access EPA guidance on Environmental Liabilities and Financial

provision

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

Lic No:

2016

W0089-02

Environmental Management Programme/Continuous Improvement Programme	template	Lic No:	W0089-02	Year	2016
Highlighted cells contain dropdown menu click to view		Additional Information			
$_{ m 1}$ Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in					
additional information	Yes	Site procedures make up th	e EMS		
2 Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes				
Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance 3 with the licence requirements	Yes				
Do you maintain an environmental documentation/communication system to inform the public on 4 environmental performance of the facility, as required by the licence	Yes				

Environmental Management Programme	nvironmental Management Programme (EMP) report								
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes				
	Maintain/Improve landfill gas		Regular & frequent field gas		Improved Environmental				
Reduction of emissions to Air	extraction regieme	Ongoing	balancing	Individual	Management Practices				
	Procure secure storage unit		Interaction with WEEE		Improved Environmental				
Materials Handling/Storage/Bunding	for WEEE	50	Collection Contractor	Individual	Management Practices				
			Consultants retained to						
	Ensure contaminated		monitor and make						
	groundwater/surface water		recommendations for on						
	does not impact of site		site GW contamination		Remediation of				
Groundwater protection	receptors	Ongoing	issues	Individual	contamination on site				

Noise monitoring summary report W0089-02 2016 Lic No: Year

Noise Guidance

Yes

Yes

No N/A

No

1 Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below

 $^{\rm 2}$ Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the note NG4

3 Does your site have a noise reduction plan

4 When was the noise reduction plan last updated?

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

Table N1: No	Table N1: Noise monitoring summary										
Date of monitoring	Time period	Noise location (on site)	Noise sensitive location - NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
17/11/2016	12:10 - 13:42	N1		51.60	39.73	50.83	83.06	No		By EPA agreement, nighttime monitoring not required	Yes
17/11/2016	08:54 – 10:27	N6		53.20	36.70	55.40	77.76	No		By EPA agreement, nighttime monitoring not required	Yes
17/11/2016	10:33 – 12:04	N7		51.15	34.26	55.56	88.46	No		By EPA agreement, nighttime monitoring not required	Yes
17/11/2016	13:49 – 15:20	N10		53.40	40.63	46.80	80.30	No		By EPA agreement, nighttime monitoring not required	Yes
17/11/2016	15:29 – 16:17	N12		53.86	6 44.06	59.06	82.13	No		By EPA agreement, nighttime monitoring not required	Yes

*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

SELECT

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

Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary	: No: W	V0089-02 Y	Year
--	---------	------------	------

Cork County Council has

energy usage reduction

team in operation

countywide

N/A

Sep-15

SELECT

1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below

Is the site a member of any accredited programmes for reducing energy usage/water conservation Industry Energy 2 such as the SEAI programme linked to the right? If yes please list them in additional information Network (LIEN)

Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage 3 in additional information SELECT

Table R1 Energy usag	e on site			
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	32.4	30.37	N/A	N/A
Total Energy Generated (MWHrs)	0	0		
Total Renewable Energy Generated (0	0		
Electricity Consumption (MWHrs)	32.4	30.37		N/A
Fossil Fuels Consumption:	N/A			
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)				
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

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

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

Table R2 Water usag	e on site				Water Emissions Water Consumption		
	Water extracted		Production +/- % compared to previous	Energy Consumption +/- % vs overall site		Volume used i.e not discharged to environment e.g.	
Water use	Previous year m3/yr.	Current year m3/yr.	reporting year**	production*	environment(m ³ yr):	released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply							
Recycled water							
Total							

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

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

Table R3 Waste Stream Summary]			
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

2016

Resource	e Usage/Energy efficiency sur	nmary			Lic No:	W0089-02		Year	2016
	Table R4: Energy Audit finding recommendations								
	Date of audit	Pasammandations	Description of	Origin of measures	Predicted energy	Implementation data	Pornoncibility		Status and
-	Date of audit	Recommendations	Measures proposed Replace existing	Origin of measures	savings %	Implementation date	Responsibility	completion date	comments
		Replace existing	lighting with						
		lighting with modern,	modern, more						
		more efficient LED	efficient LED lights						
	Sep-15	lights and sensors.	and sensors.	energy audit	33	2016	Facility Manager	Dec-16	Complete
				SELECT					
				SELECT					

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

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

Complaints and Incidents summary template	Lic No:	W0089-02	Year	2016	
Complaints					

No

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

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 Total new complaints received during reporting year							
Total complaints closed during reporting year							
Balance of complaints end of reporting year	(

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

increase

100%

Table 2 Incidents sur	mmary													
			Incident			Other	Activity in				Preventative			
			category*please refer to			cause(please	progress at			Corrective action<20	action <20		Resolution	Likelihood of
Date of occurrence	Incident nature	Location of occurrence	guidance	Receptor	Cause of incident	specify)	time of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurence
	Select	Select	Select	Select	Select		Select	Select	Select			Select		Select
	Select	Select	Select	Select	Select		Select	Select	Select			Select		Select
	Select	Select	Select	Select	Select		Select	Select	Select			Select		Select
	Select	Select	Select	Select	Select		Select	Select	Select			Select		Select
Total number of														
incidents current														
year	0													
Total number of														
incidents previous														
year	8													
% reduction/														

	22	

WASTE SUMMARY	Lic No:	W0089-02	Year	2016
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY AI	LL IPPC AND WASTE FACILITIES	PRTR facility logon	dropdown li	st click to see options

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES		
		Additional Information
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 1 is to be captured through PRTR reporting)	No	
If yes please enter details in table 1 below		
2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information	No	
3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information	No	

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	EWC code	Source of waste accepted	Description of waste	Quantity of waste	Quantity of waste accepted in	Reduction/	Reason for	Packaging Content (%)-	Disposal/Recovery or	Quantity of	Comments -
limit for your site (total			accepted	accepted in current	previous reporting year (tonnes)	Increase over	reduction/ increase	only applies if the	treatment operation carried	waste	
tonnes/annum)			Please enter an	reporting year (tonnes)		previous year +/ -	from previous	waste has a packaging	out at your site and the	remaining on	
			accurate and detailed			%	reporting year	component	description of this operation	site at the end	
			description - which							of reporting	
			applies to relevant EWC							year (tonnes)	
			code								
	European Waste Catalogue EWC codes		European Waste								
			Catalogue EWC codes								
				1	1						

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

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

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

6 Does your facility have relevant nuisance controls in place? 7 Do you have an odour management system in place for your facility? If no why? 8 Do you maintain a sludge register on site?

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

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

Table 3 General information-Landfill only

Area l	D	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?	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
N/A - Landfill Clo	osed												

 Table 4 Environmental monitoring-landfill only
 Landfill Manual-Monitoring Standards

SELECT SELECT SELECT SELECT SELECT SELECT

WASTE SUMMARY					Lic No:	W0089-02		Year	2016
	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			Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments	
No	Yes	Yes	Yes	Yes	Yes	No	Yes		
+ please refer to Landfill Ma	anual linked above for relevant Landfill D	irective monitoring standards							
Table 5 Capping-Land	Ifill only								
Area uncapped*	Area with temporary cap			Area with waste that should be permanently					
SELECT UNIT	SELECT UNIT	Area with final cap to LD Standard m2 ha, a	Area capped other	capped to date under licence	What materials are used in the cap	Comments			
N/A - Landfill Capped									
please note this includes d	aily cover area						-		
Fable 6 Leachate-Lan	dfill only								
s leachate from your site tr	eated in a Waste Water Treatment Plant	?				Yes	T		
s leachate released to surfa	ace water? If yes please complete leacha	te mass load information below				No	1		
						-	-		
Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum		Specify type of leachate treatment	Comments		
6169.83			(a			Bandon WWTP		1	
		1	1		1				
	Please ensure that all information report	ted in the landfill gas section is co	onsistent with the Landfill	Gas Survey submitted in	conjunction with PRTR returns				
	andfill anly						-		
Table 7 Landfill Gas-L	andillioniv								

Was surface emissions monitoring performed
Gas Captured&Treated by LFG System m3 Power generated (MW / KWh) Used on-site or to national grid year? Comments
CH ₄ - 54,500 0 0 No



Guidance to completing the PRTR workbook

PRTR Returns Workbook Version 1.1.19

REFERENCE YEAR	2016
1. FACILITY IDENTIFICATION	
Parent Company Name	Cork County Council
Facility Name	Derryconnell Landfill
PRTR Identification Number	W0089
Licence Number	W0089-02

Classes of Activity

No. class_name - Refer to PRTR class activities below

	Derryconnell
Address 2	Schull
Address 3	
Address 4	
	Cork
Country	
Coordinates of Location	-7.46596 53.2762
River Basin District	IESW
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Mairead Hales
AER Returns Contact Email Address	mairead.hales@corkcoco.ie
AER Returns Contact Position	Executive Engineer
AER Returns Contact Telephone Number	028 37742
AER Returns Contact Mobile Phone Number	086 6018493
AER Returns Contact Fax Number	028 37742
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	3
User Feedback/Comments	Intake of paint, inks, adhesives and resins containing dangerous
	substances (20 01 27) increassed by 6.4tns from 2015 - Increased
	customer activity for this item.
Web Address	
Web Address	

2. PRTR CLASS ACTIVITIES

Environmental Protection Agency

Activity Number	Activity Name
5(c)	Installations for the disposal of non-hazardous waste
	Installations for the disposal of non-hazardous waste
5(d)	Landfills
50.1	General
3. SOLVENTS REGULATIONS (S.I. No. 543 of 20	02)
Is it applicable?	No
Have you been granted an exemption ?	
If applicable which activity class applies (as per	
Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being	
used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

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

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

4.1 RELEASES TO AIR

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

		RELEASES TO AIR	Please enter all quantities in this section in KGs							
POLLUTANT				MET	НОД		QUANTITY			
				Method Used						
	No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
01		Methane (CH4)	С	OTH	LandGEM Modelling	0.0	237032.8	0.0	237032.8	
		* Colort a revulue double allabian and the Dall dant Name (Colored D) they allabe the dalate butter								

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

SECTION B : REMAINING PRTR POLLUTANTS

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

* 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)

	Please enter all quantities in this section in KGs							
	POLLUTANT		М	ETHOD	QUANTITY			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0		0.0 0.	0.0

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

Additional Data Requested from Landf	fill operators					
flared or utilised on their facilities to accompany the figure	e Gases, landfill operators are requested to provide summary data on landfill gas (Methane) es for total methane generated. Operators should only report their Net methane (CH4) emission ctor specific PRTR pollutants above. Please complete the table below:					
Landfill:	Derryconnell Landfill					
Please enter summary data on the quantities of methane flared and / or utilised			Met	hod Used		
	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	Facility Total Capacity m3 per hour	
Total estimated methane generation (as per	` / °					
site model)		-	ОТН	Landgem	N/A	
Methane flared	36980.0	С	ОТН	Landfill Gas Survey	500.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section						
A above)	237032.8	С	ОТН	LandGEM Modelling	N/A	

30/03/2017 16:04

			Quantity (Tonnes per Year)		Marta		Method Used		Haz Waste : Name and Licence/Permit No of Next Destination Facility <u>Non</u> Haz Waste: Name and Licence/Permit No of Recover/Disposer	<u>Haz Waste</u> : Address of Next Destination Facility <u>Non Haz Waste</u> : Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destina i.e. Final Recovery / Disposal 3 (HAZARDOUS WASTE ONI
ransfer Destination	European Waste Code	Hazardous		Description of Waste	Waste Treatment Operation	M/C/E	Method Used	Location of Treatment				
										Clonminam Industrial Estate,Portlaoise,Co.		Clonminam Industrial Estate,Portlaoise,Co.
ithin the Country	13 02 08	Yes	2.38	other engine, gear and lubricating oils	R13	м	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0184-01 Green Dragon		Enva Ireland Ltd.,W0184-01	
ithin the Country	15 01 04	No	4.98	metallic packaging	R13	м	Weighed	Offsite in Ireland		Corbally,Glanmire,Co. Cork,.,Ireland		
thin the Country	15 01 06	No	136.5	mixed packaging	R13	м	Weighed	Offsite in Ireland	Bantry Skip Hire,WFP-CK-12- 0120-01	Dunbittern East ,Bantry ,Co. Cork ,.,Ireland		
										Luddenmore,Grange,Kilmallo)	
ithin the Country	15 01 07	No	48.14	glass packaging	R13	М	Weighed	Offsite in Ireland	Mr. Binman Ltd.,W0061-02	ck,Co. Limerick,Ireland Clonminam Industrial		Clonminam Industrial
ithin the Country	16 01 07	Yes	0.11	oil filters	R13	м	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0184-01	Estate,Portlaoise,Co. Laois,.,Ireland Cappincur Industrial	Enva Ireland Ltd.,W0184-01	Estate,Portlaoise,Co. Laois,.,Ireland
ithin the Country	16 02 14	No	40.04	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	R13	м	Weighed	Offsite in Ireland	KMK Metals Recycling,W0113-03	Estate, Duingean Road, Tullamore, Co. Offaly, Ireland		
ithin the Country	16 05 04	Yes	0.6	gases in pressure containers (including halons) containing dangerous substances	R13	м	Weighed	Offsite in Ireland	Enva Ireland Ltd.,W0184-01	Clonminam Industrial Estate,Portlaoise,Co. Laois,.,Ireland	Enva Ireland Ltd.,W0184-01	Clonminam Industrial Estate,Portlaoise,Co. Laois,.,Ireland
									KMK Metals	Cappincur Industrial Estate,Duingean Road,Tullamore,Co.		Clonminam Industrial Estate,Portlaoise,Co.
thin the Country	16 06 01	Yes	1.9	lead batteries	R13	м	Weighed	Offsite in Ireland	Recycling,W0113-03 KMK Metals	Offaly, Ireland Cappincur Industrial Estate, Duingean Road, Tullamore, Co.	Enva Ireland Ltd.,W0184-01	Laois,.,Ireland
ithin the Country	16 06 05	No	0.76	other batteries and accumulators landfill leachate other than those	R13	м	Weighed	Offsite in Ireland	Recycling,W0113-03 Cork County Council -	Offaly,Ireland Glaslin Road,Bandon,Co.		
thin the Country	19 07 03	No	6169.83	mentioned in 19 07 02	D9	м	Weighed	Offsite in Ireland	Bandon WWTP,.	Cork,.,Ireland 1 Ballycregagh Road,Cloughmills,Co.		
Other Countries	20 01 11	No	2.86	textiles	R13	М	Weighed	Abroad	Ltd.,LN/13/17 Cork Oil Collectors,WFP-CK-	Antrim,Ireland 5 St. Lappans Place,Little		
thin the Country	20 01 25	No	0.0	edible oil and fat	R13	М	Weighed	Offsite in Ireland		Island,Cork,.,Ireland Clonminam Industrial		Clonminam Industrial
thin the Country	20 01 27	Yes	12.64	paint, inks, adhesives and resins containing dangerous substances	R13	м	Weighed	Offsite in Ireland	Enva Ireland Ltd., W0184-01	Estate, Portlaoise, Co. Laois,., Ireland	Enva Ireland Ltd.,W0184-01	Estate,Portlaoise,Co.
thin the Country	20 01 38	No	21.5	wood other than that mentioned in 20 01 37	R13	м	Weighed	Offsite in Ireland		Cork ,.,Ireland		
thin the Country	20 01 40	No	65.4	metals	R13	М	Weighed	Offsite in Ireland		Forge Hill,Airport Road,Cork,.,Ireland		
thin the Country	20 03 01	No	272.45	mixed municipal waste	D15	м	Weighed	Offsite in Ireland		Cork ,.,Ireland		
hin the Country	20 03 07	No	149.5	bulky waste	D15	м	Weighed	Offsite in Ireland		Dunbittern East ,Bantry ,Co. Cork ,.,Ireland Mill River Business Park,Carrik-On-		
thin the Country	20 01 11	No	2.3	textiles	R13	м	Weighed	Offsite in Ireland	Environmental,WCP/KK/048 8/01	Tipperary, Ireland		
thin the Country	20 01 38	No	55.84	wood other than that mentioned in 20 01 37	R13	м	Weighed	Offsite in Ireland	KWD Recycling,W0217-01	Aughacurreen, Killarney, Co. Kerry,., Ireland Aughacurreen, Killarney, Co.		
thin the Country	20 03 01	No	25.12	mixed municipal waste	D15	м	Weighed	Offsite in Ireland	KWD Recycling,W0217-01	Augnacurreen, Killarney, Co. Kerry, ., Ireland Aughacurreen, Killarney, Co.		
thin the Country	20 03 07	No	24.62	bulky waste	D15	м	Weighed	Offsite in Ireland	KWD Recycling,W0217-01	Kerry,.,Ireland		