

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.

Consent of conviction purposes only, any other use.

Facility Information Summa	ry]		
AER Reporting Year	2018	-		
Licence Register Number		P079	1-02	
Name of site	Arrabaw	n Co-opera	tive Society Limited	
Site Location	Stafford	d Street, Nei	nagh, Co. Tipperary	
NACE Code		10	51	
Class/Classes of Activity		7.2	2.1	
National Grid Reference (6E, 6 N)		187600E	178750N	
	Arrabawn Co-operativ	e Society lir	nited is a dairy processing installat	io
	plant operates on a 24	I hour basis	processing circa 325 million litres	0
	people are employed a	at the instal	lation. The product range from the	e ir

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</u> <u>applicable) and what they relate to e.g. air,</u> <u>water, noise.</u> Arrabawn Co-operative Society limited is a dairy processing installation located in Nenagh, Co. Tipperary. The plant operates on a 24 hour basis processing circa 325 million litres of milk per annum. Approximately 110 people are employed at the installation. The product range from the installation includes skim milk powder, whey powder products, casein and caseinate products and butter. The site is split into 3 sections, the office block, the processing plant and the wastewater treatment plant. There was 4 official EPA complaints in 2018, two on odour and one each on noise & water quality. Which were all reported to the EPA and all complaints were closed promptly. There was 2 pollution incidents in June and July 2018 from SW2 discharge. Odour control chemicals are available on site 24/7 in the event of an odour issue in the WWTP. We are addressing the issues of nightime noise at AN1 and volumetric flow from A2-1 exceedances in our licence review application. We have installed SMS text alerts to our dust monitoring system with 24 hour response. We have 7 day week manned cover in the WWTP, 2447 shift manager cover on site and with WWTP operators on call out of hours supported by remote access to the plant via tablet.

Declaration:

All the data and information presented in	n this report has been checked and certified as being accurate. The quality
of the inform	ation is assured to meet licence requirements.
Alan Kelly	28th March 2019
Signature Group/Facility manager	Date
(or nominated, suitably qualified and experienced deputy)	

_						
	AIR-summary template	Lic No:	P0791-02	Year	2018	
	Answer all questions and complete all tables where relevant					
				Additional information		
1	Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If you do not have licenced emissions and do not complete a solvent management plan (table A4 and A5) you <u>do not</u> need to complete the tables	Yes				
	Periodic/Non-Continuous Monitoring					
2	Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below	Yes				

Yes

3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist?

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			Compliant with licence limits	other use. Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
A2-1	volumetric flow	Annual	10900	All 1-hour averages < ELV	19273	m3/hr	of life please enter details in comments box)	ISO 16911-1:2013		This non- compliance is being addressed under licence review application submitted.
	SELECT			SELECT			SELECT	SELECT		
Note 1: Volumetric	flow shall be included as a	a reportable paramete	ır		Consento					

AGN2

	AIR-summary template	Lic No:	P0791-02	Year	2018
	Continuous Monitoring				
4	Does your site carry out continuous air emissions monitoring?	No			
	If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)	t 			
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	SELECT			
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	SELECT			
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below Table A2: Summary of average emissions -continuous monitoring	SELECT			

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 any							reporting year	
		revision therof								
	SELECT			SELECT	SELECT					
	SELECT				SELECT			<u>ي</u> .		
	SELECT				SELECT			ALC: NO		
	SELECT				SELECT			ner		
	SELECT				SELECT			. 01		
note 1: Volumetric	flow shall be included as a	reportable paramete	r.				only of	12		

te*	Duration** (hours)	Location	Reason for bypass	Impact magnitude 🔊 🖉	Corrective action
				all't all'	
				N. 200	
				ior er	
				e ^{Ct} M ^{II}	
				- IV All	
* an accurato r			ment system bypass occurred be logged on site and maintained for future Agency	Consent of cop?	

	AIR-summary t	template				Lic No:	P0791-02		Year	2018	
	Solvent	use and manageme	ent on site								
									1		
8	Do you have a total	l Emission Limit Value of d	irect and fugitive emis	sions on site? if yes	s please fill out tables A4 and A5			No			
	Table A4: Solve	ent Management Pla	n Summary	Solvent	Please refer to linked solver	nt regulations to	1				
		ssion limit value	,	regulations	complete table 5	and 6					
	Reporting year	Total solvent input on	Total VOC emissions			Compliance					
		site (kg)	to Air from entire site (direct and	emissions as %of solvent input	Total Emission Limit Value						
			fugitive)		(ELV) in licence or any revision therof						
						SELECT					
						SELECT					
	Table A5:	Solvent Mass Balan	ce summary						¢.*	1	
									x 150		
		(I) Inputs (kg)			(0)	Outputs (kg)			other		
								only a	Total emission of		
	Solvent	(I) Inputs (kg)	Organic solvent emission in waste	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by-	Solvents destroyed onsite through	Total emission of Solvent to air (kg)		
						(8)	Same 10,00,00,00,00	an equilities	(
							tion	5			
							Se on				
							· · · · · · · · · · · · · · · · · · ·	Tota			
						Consent	ropt				
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						Cor					

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)	Lic No:	P0791-02	Year	2018
		Additional information	on	

Yes

Yes

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

RW2 dry throughout 2018. RW3 removed on the 04/10/2018 as part of construction works for the new Casein plant .

Was it a requirement of your licence to carry out visual inspections on any surface water 2 discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections

Table W1 Storm water monitoring

relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments	
onsite	SELECT	BOD	29/03/2018	NA	SELECT	7	mg/L	yes		
onsite	SELECT	BOD	29/03/2018	NA	SELECT	8	mg/L	yes		
onsite	SELECT	BOD	03/05/2018	NA	SELECT	<2	mg/L	yes		
onsite	SELECT	BOD	03/05/2018	NA	SELECT	9	mg/L	yes		
onsite	SELECT	BOD	26/07/2018	NA	SELECT	<2	mg/L	yes		
onsite	SELECT	BOD	26/07/2018	NA	SELECT	<2	mg/L	yes		
onsite	SELECT	BOD	25/10/2018	NA	SELECT	<2	mg/L	yes		
onsite	SELECT	BOD	25/10/2018	NA	SELECT	N/A	mg/L	yes		
RW3 onsite SELECT BOD 25/10/2018 NA SELECT N/A mg/L yes *trigger values may be agreed by the Agency outside of licence conditions Table W2 Visual inspections-Please only enter details where contamination was observed.										
y	activities onsite onsite onsite onsite onsite onsite onsite onsite be agreed by th	activities onsite SELECT the agreed by the Agency outside of licent	lative to site PRTR Parameter activities PRTR Parameter Parameter onsite SELECT BOD onsite SELECT BOD on	Parameter Parameter date onsite SELECT BOD 29/03/2018 onsite SELECT BOD 29/03/2018 onsite SELECT BOD 03/05/2018 onsite SELECT BOD 03/05/2018 onsite SELECT BOD 25/07/2018 onsite SELECT BOD 25/07/2018 onsite SELECT BOD 25/10/2018 onsite SELECT BOD 25/10/2018 onsite SELECT BOD 25/10/2018 onsite SELECT BOD 25/10/2018 be agreed by the Agency outside of licence conditions SE/10/2018 SE/10/2018	PRTR Parameter Parameter date or any revision thereof* onsite SELECT BOD 29/03/2018 NA onsite SELECT BOD 29/03/2018 NA onsite SELECT BOD 03/05/2018 NA onsite SELECT BOD 03/05/2018 NA onsite SELECT BOD 03/05/2018 NA onsite SELECT BOD 26/07/2018 NA onsite SELECT BOD 26/07/2018 NA onsite SELECT BOD 26/07/2018 NA onsite SELECT BOD 25/10/2018 NA onsite SELECT BOD 25/10/2018 NA onsite SELECT BOD 25/10/2018 NA	PRTR Parameter Parameter date or any revision thereof* Compliance criteria onsite SELECT BOD 29/03/2018 NA SELECT onsite SELECT BOD 29/03/2018 NA SELECT onsite SELECT BOD 03/05/2018 NA SELECT onsite SELECT BOD 03/05/2018 NA SELECT onsite SELECT BOD 03/05/2018 NA SELECT onsite SELECT BOD 26/07/2018 NA SELECT onsite SELECT BOD 26/07/2018 NA SELECT onsite SELECT BOD 26/07/2018 NA SELECT onsite SELECT BOD 25/10/2018 NA SELECT onsite SELECT BOD 25/10/2018 NA SELECT onsite SELECT BOD 25/10/2018 NA SELECT b agreed by the Agency outside of licence conditions Starter	PRTR Parameter activities Parameter date or any revision thereof* Construction criteria Measured value onsite SELECT BOD 29/03/2018 NA SELECT 7 onsite SELECT BOD 29/03/2018 NA SELECT 8 onsite SELECT BOD 03/05/2018 NA SELECT 8 onsite SELECT BOD 03/05/2018 NA SELECT 9 onsite SELECT BOD 03/05/2018 NA SELECT 9 onsite SELECT BOD 25/07/2018 NA SELECT -<	PRTR Parameter activities Parameter date or any revision thereof* Compliance criteria Measured value measurement onsite SELECT BOD 29/03/2018 NA SELECT 7 mg/L onsite SELECT BOD 29/03/2018 NA SELECT 8 mg/L onsite SELECT BOD 03/05/2018 NA SELECT 9 mg/L onsite SELECT BOD 03/05/2018 NA SELECT 9 mg/L onsite SELECT BOD 03/05/2018 NA SELECT 9 mg/L onsite SELECT BOD 25/07/2018 NA SELECT 2 mg/L onsite SELECT BOD 25/07/2018 NA SELECT -2 mg/L onsite SELECT BOD 25/07/2018 NA SELECT -2 mg/L onsite SELECT BOD 25/10/2018 NA SELECT -2 m	PRTR Parameter activities Parameter date or any revision thereof* Criteria Measured value (criteria) measurement measurement ficence onsite SELECT BOD 29/03/2018 NA SELECT 7 mg/L yes onsite SELECT BOD 29/03/2018 NA SELECT 8 mg/L yes onsite SELECT BOD 03/05/2018 NA SELECT 9 mg/L yes onsite SELECT BOD 03/05/2018 NA SELECT 9 mg/L yes onsite SELECT BOD 25/07/2018 NA SELECT 9 mg/L yes onsite SELECT BOD 25/07/2018 NA SELECT 2 mg/L yes onsite SELECT BOD 25/07/2018 NA SELECT -2 mg/L yes onsite SELECT BOD 25/10/2018 NA SELECT -2 mg	

Table W2 Visual inspections-Please only enter details where contamination was observed.

Location Reference	Date of inspection	Description of contamination		Source of contamination	Corrective actio	n	W. My Comments
				SELECT			01 1
				SELECT			\$. XO
		er and /or wastewater(sewer)-periodic monit licence requirements? If yes please provide brief details i		ous)		on Purpos	ined
3		ment section of Table W3 below	Yes		Additional information	in or	
guidance and ch Data Reported	toring carried out hecklists for Quali I to the EPA? If no	n accordance with EPA y of Aqueous Monitoring <u>External /internal</u> Jelase detail what areas <u>Lab Quality</u> <u>Assessmer</u> ional information box <u>checklist</u> <u>results che</u>			Forths	200 OWN	
Table W3: Lio	censed Emissio	ons to water and /or wastewater (sewer)-peri	odic monitoring (n	on-continuous)	atofee		
				ELV or trigger	01504		

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

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

						ELV or trigger values in licence or	Consor						Procedural		
Emission	Emission	Parameter/		Frequency of		any revision			Unit of			Procedural	reference	Annual mass load	
reference no:	released to	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
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	2.5	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			21/06/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	3.5	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			22/06/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	5.1	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			23/06/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	5.4	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			24/06/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	6.6	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			25/06/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	6.8	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			26/06/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	2.4	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			27/06/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	9.6	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			13/07/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	14.2	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			14/07/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	16.4	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			15/07/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	11.2	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			16/07/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	9.2	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			17/07/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	9.4	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			18/07/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	8.5	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			19/07/2018
SW2	Water	Ammonia (as N)	composite	Daily	24 hour	1	All values < ELV	3.6	mg/L	no (if no please enter	INSTRUMENTAL METHODS	APHA / AWWA			20/07/2018

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

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

Continuous monitoring

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

Additional Information Yes

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

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

Did continuous monitoring equipment experience downtime? If yes please record downtime in

⁶ table W4 below	Yes	SW2 flowmeter malfunctioned 01/03/2018 and replaced 01/08/2018
7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?	Yes	
Did abatement system bypass occur during the reporting year? If yes please complete table W5 8 below	Yes	DAF150 poly pump malfunctioned. Spare now on site.

Lic No:

P0791-02

Table W4: Summary of average emissions -continuous monitoring

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

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

Table W5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Resultant	Reason for	Corrective	Was a report	When was this report
			emissions	bypass	action*	submitted to the	submitted?
						EPA?	
10/07/2018	24	DAF150 WWTP	discolouration	Pump	Spare now in		
				Malfunction	stock	Yes	10/07/2018

*Measures taken or proposed to reduce or limit bypass frequency

Year

2018

	Bund/Pipeline te	esting template				Lic No:	P0791-02		Year			2018			
								Additional information							
	e you required by y	our licence to undertake integrity testing on but	nds and containment structures	? if yes please fill out table B1	below listing all new bunc	is and containment									
				a failed including mobile bunds	s must be listed in the tabl	le below, <u>please include a</u>	All Yes								
			tore included)												
							3 years	Apr-17							
		n a register of bunds, underground pipelines (in	ncluding stormwater and foul), Ta	anks, sumps and containers? (containers refers to "Chem	store" type units and	Yes								
	obile bunds)														
			rchadula?						-						
	ow many or these of ow many mobile bu	nds are on site?	scheduler												
	ow many of these m	obile bunds have been tested within the require	ed test schedule?												
								Apr-17							
			ile?				12								
	lease list any sump i	integrity failures in table B1					-								
	o all sumps and cha	mbers have high level liquid alarms?							_						
	yes to Q11 are thes	e failsate systems included in a maintenance an	id testing programme?						-						
	he rife water Nete	sicion Pond included in your integrity test progra	annier				N/A								
		Table B1: Summary details of bund /co	intainment structure integrity tes	t											
															Re
$\log \log $															
line line <thline< th=""> line <th< td=""><td>ind/Containment</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<></thline<>	ind/Containment														
Image Production Central Juin Juin </td <td></td> <td>Type</td> <td>Specify Other type</td> <td></td> <td>Actual capacity</td> <td></td> <td>Type of integrity test</td> <td>Other test type</td> <td>Test date</td> <td>Integrity reports maintained on site?</td> <td></td> <td>Results of test</td> <td>Integrity test failure explanation <50 words</td> <td></td> <td></td>		Type	Specify Other type		Actual capacity		Type of integrity test	Other test type	Test date	Integrity reports maintained on site?		Results of test	Integrity test failure explanation <50 words		
bs operation of the server of th	1				1.2 m3		Hydraulic test	Structural assessment	19/04/2017		Yes	Fall	Not watertight	Base of bunds relined	Apr-20 Pa
n n No. No. Fel Restance mean No. Fel Restance mean No. Restance mean No. No. Restance mean Restance mea Restance mean<	5a							Structural assessment				Fail	Seepage, unsealed pipe & holes	Holes sealed & valves fitted	Apr-20 Pa
	6			Production Chemicals	95 m3	59 m3	Structural assessment		19/04/2017			Fail	Leaking & minor punctures	Liner repaired	Apr-20 Pa
				Production Chemicals	1.18 m3	1100 L	Structural assessment		19/04/2017		Yes	Fail	Puncture in the side	Bund replaced	Apr-20 Pa
	acity required should con Intensity testion b	mply with 25% or 110% containment rule as detailed in your licence seeo correlation out in accordance with licence require	a wirements and are all structures t	terted in line with				Commentary							
			unements and are an structures		bunding and storage guid	eines	Yes								
			d?				Yes								
	re channels/transfe	r systems compliant in both integrity and availal	ble volume?				Yes								
required by your literate to undergrand shuckness age planes on undergrand shuckness a															
The prime with prime day out which the rest with prime state with the rest with the			-												
00 11000 / 3400 105 040 741 105 743 104 104 201 70 Process council + No Image: Second + No Image: Second + No 201	Pipeir	e/underground structure testing													
00 11000 / 3400 105 040 741 105 743 104 104 201 70 Process council + No Image: Second + No Image: Second + No 201	Are you required by y	our licence to undertake integrity testing* on un	nderground structures e.g. pipeli	nes or sumps etc ? if yes pleas	se fill out table 2 below list	ing all underground	Yes			a .•					
00 11000 / 3400 105 040 741 105 743 104 104 201 70 Process council + No Image: Second + No Image: Second + No 201															
00 11000 / 3400 105 040 741 105 743 104 104 201 70 Process council + No Image: Second + No Image: Second + No 201			II which have not been tested w	ithing the integrity test perior	d as specified		-		_	250					
00 11000 / 3400 105 040 741 105 743 104 104 201 70 Process council + No Image: Second + No Image: Second + No 201	lease provide integri	ity testing frequency period		ithing the integrity test perior	d as specified		3 years			× 150					
00 11000 / 3400 105 040 741 105 743 104 104 201 70 Process council + No Image: Second + No Image: Second + No 201	lease provide integri please note integrity	ity testing frequency period		ithing the integrity test perior	d as specified		3 years			er uso					
00 11000 / 3400 105 040 741 105 743 104 104 201 70 Process council + No Image: Second + No Image: Second + No 201	flease provide integri please note integrity	ity testing frequency period resting means water tightness testing for proce	ess and foul pipelines (as require	ithing the integrity test perior d under your licence)	d as specified		3 years			ther use					
00 11000 / 3400 105 040 741 105 743 104 104 201 70 Process council + No Image: Second + No Image: Second + No 201	flease provide integri please note integrity	ity testing frequency period resting means water tightness testing for proce	ess and foul pipelines (as require	ithing the integrity test perior d under your licence)	d as specified		3 years		=	Heruse			1		
00 11000 / 3400 105 040 741 105 743 104 104 201 70 Process council + No Image: Second + No Image: Second + No 201	fease provide integrity please note integrity	ity testing frequency period resting means water tightness testing for proce	ess and foul pipelines (as require	ithing the integrity test perior d under your licence)	d as specified		3 years		1	A A other use					
00 11000 / 3400 105 040 741 105 743 104 104 201 70 Process council + No Image: Second + No Image: Second + No 201	fease provide integrity please note integrity	ity testing frequency period resting means water tightness testing for proce	ess and foul pipelines (as require	ithing the integrity test perior d under your licence)	d as specified		3 years		1	S. ny other use					
00 11000 / 3400 105 040 741 105 743 104 104 201 70 Process council + No Image: Second + No Image: Second + No 201	lease provide integri please note integrity	ity testing frequency period resting means water tightness testing for proce	ess and foul pipelines (as require	ithing the integrity test perior d under your licence)	d as specified		3 years		±	S. any other use					
00 11000 / 3400 105 040 741 105 743 104 104 201 70 Process council + No Image: Second + No Image: Second + No 201	lease provide integri please note integrity	ity testing frequency period resting means water tightness testing for proce	ess and foul pipelines (as require	ithing the integrity test period d under your licence)	d as specified				±	Stany offer Use					
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70 Process concrete No Defects in the line 🔊 🔅	please note integrity	hy testing frequency period testing means water tightness testing for proce Table 82: Summary details of pipeline/ur Type system	ess and foul pipelines (as require interground structures integrity b Material of construction:	thing the integrity test period d under your licence) est Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports		angely let faller explanation <0 work	S' any other the		for retest	Reads of retest(if is current reporting year)		
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Lic No:

P0791-02

Year

2018

Comments 1 Are you required to carry out groundwater monitoring as part of your licence requirements? no 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 All fresh water used on interpretation box below or if you require additional space please 3 Do you extract groundwater for use on site? If yes please specify use in comment site is from our own include a groundwater/contaminated land monitoring results wells. section interpretaion as an additional section in this AER yes Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is 4 there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Groundwater Report (link in cell G8) and submit separately through ALDER as monitoring a licensee return AND answer questions 5-12 below. template SELECT 5 Is the contamination related to operations at the facility (either current and/or SELECT historic) 6 Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site SELECT SELECT 7 Please specify the proposed time frame for the remediation strategy 8 Is there a licence condition to carry out/update ELRA for the site? SELECT SELECT 9 Has any type of risk assessment been carried out for the site? 10 Has a Conceptual Site Model been developed for the site? SELECT 11 Have potential receptors been identified on and off site? SELECT 12 Is there evidence that contamination is migrating offsite? SELECT Please enter interpretation of data here

Table 1: Upgradient Groundwater monitoring results

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						to Br				
						x				Upward trend in
					ž	Or .				pollutant
	Sample				Sel					concentration
Date of	location	Parameter/		Monitoring	Maximum	Average				over last 5 years
sampling	reference	Substance	Methodology	frequency	Concentration++	Concentration+	unit	GTV's*	SELECT**	of monitoring data
							SELECT			SELECT
							SELECT			SELECT

.+ where average indicates arithmetic mean

Groundwater/Soil monitoring template

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

Table 2: Downgradient Groundwater monitoring results

										Upward trend in
										yearly average
										pollutant
	Sample									concentration
Date of	location	Parameter/		Monitoring	Maximum	Average				over last 5 years
sampling	reference	Substance	Methodology	frequency	Concentration	Concentration	unit	GTV's*	SELECT**	of monitoring data
							SELECT			SELECT
							SELECT			SELECT

	-	nonitoring te			Lic No:	P0791-02		Year	2018	3		
trend in i	results for a sub	tance indicates t	hat further interpo uideline Template	retation of monitorir	g results is required. In ovided and submit sep	n addition to completi	eline Value (IGV) or an upward ng the above table, please R as a licensee return or as		undwater monito	oring template		
	and risk assess	0		/ generic assessmen ublished guidance		the Management o	Contaminated Land and G	oundwater a	ut EPA Licensed S	<u>iites (EPA 2013).</u>		
			vater compare to S	Surface Water Enviro		lards (SWEQS), If the si	rds should be used in addition te is close to a drinking water	<u>Surface</u> water EQS	<u>Groundwater</u> <u>regulations</u> <u>GTV's</u>	Drinking water (private supply) standards	Drinking water (public supply) standards	<u>Interim G</u> Values (IC
Table 3: S	Soil results	T		1								
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit					
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2018

Year

Environmental Liabilities template

Click here to access EPA guidance on Environmental Liabilities and Financial

provision

			Commentary
1	ELRA initial agreement status	Submitted and not agreed by EPA	Submission of ELRA rejected by EPA in Q4-2015. Revised
			documents submitted during Q3- 2016 & Q3-2018.
2	ELRA review status	No instruction from the EPA	Submission of ELRA rejected by EPA in Q4-2015. Revised documents submitted during Q3- 2016 & Q3-2018 as part of licence review documentation
3	Amount of Financial Provision cover required as determined by the latest ELRA	€495,621	
4	Financial Provision for ELRA status	Submitted and not agreed by EPA	
5	Financial Provision for ELRA - amount of cover	€2,600,000.00	
6	Financial Provision for ELRA - type	Public Liability Insurance with Environmental Impairment Liability cover,	1 ¹⁵
7	Financial provision for ELRA expiry date	NA NA NA	
8	Closure plan initial agreement status	Closure plan submitted and not agreed by EPA real for the submitted and not agreed by EPA real for the submitted and not agreed by EPA	Submission of DMP (Decommissioning Management Plan) rejected by EPA in Q4-2015. Revised documents submitted during Q3-2016 & Q3-2018.
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Submitted and not agreed by EPA	
11	Financial Provision for Closure - amount of cover	€97,918.00	
12	Financial Provision for Closure - type	Public Liability Insurance with Equivormental Impairment Liability cover,	
13	Financial provision for Closure expiry date	Consert of	1

Lic No:

P0791-02

Environmental Manage	ment Programme/Continuous Improvement Programme temp	olate	Lic No:	P0791-02	Year	2018
Hi	ghlighted cells contain dropdown menu click to view		Additional Informat	ion		
1 Do you maintain an Environm	ental Management System (EMS) for the site. If yes, please detail in additional information	Yes		EMS based on ISO 14001		
2 Does the EMS reference	the most significant environmental aspects and associated impacts on-site	Yes				
Does the EMS maintain an E 3	nvironmental Management Programme (EMP) as required in accordance with the licence requirements	Yes				
	ronmental documentation/communication system to inform the public on ental performance of the facility, as required by the licence	Yes				

Environmental Management Programme (EMP) report				
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Water	Improve the operation and infrastructure of the effluent plant and the condensate system. Reduce the flow and increase the quality of the effluent going to river	100%	New SCADA system with remote monitoring and alarms on key equipment in the WWTP. Nenote tablet system installed with 24 hour remote access possible. On going COD reduction program at size level to reduce the loading on the WWTP. Comprehensive training completed on WWTP operators. Environmental awareness Training completed by all operators and managers on site.	Individual	Improved operation of WWTP, ability to respond quickly to operational issues with the Alarm alert system in place. Trigger values in place to ensure immediate acton taken if EUX start to rise. Reduction on COD fro individual plants going to the WWTP with a daily review of each plant COD at the daily operations meeting.
Reduction of emissions to Air	Improve the air quality of the surrounding area by reducing emissions. Reduce and eliminate dust complaints	100%	Bag filter replace on niro 1 Dryer with best available technology. Optimised operation of WWT Phas eliminated odour issues. Dust monitor in place and all operators and manager have received training in environmental awareness. SMS dust text alert/alarms now in place.	Individual Environmental Manager & Environmental Officer Environmental Manager	Improved systems in place to manage emissions with trigger levsl set on the SMS alarm system trigger to start of the SMS alarm system
Noise reduction	Comply with the 55/45db limit at site boundary	In progress	In 2018 noise survey monitoring point AN1 exceedeed the night time timit as per (CAN acoustics report, however there is significant background noise which is also over the night time limit in this area. We are addressing this exceedance in our license review application.	Environmental Manager	Licence review application submitted to the EPA
Environmental Management	Implement Certified Environmental Management System to manage environmental responsibities	In progress	Apply for certificatoon to ISO 14001 Environmental standard	Environmental Manager	To progress during 2019, Panther Environmental solutions to support
Reduction of emissions to Air	Reduce/Eliminate odour complaints	In progress	We are carrying out regular audits on farmland during landspreading activities to reduce the possibility of odour complaints.	Environmental Officer	Work in progress.Removed population dense odour sensitive areas from land spreading and contractor doing land,

Noise monitoring summary report	Lic No:	P0791-02	Year	2018
1 Was noise monitoring a licence requirement for the AER period?		Yes]	
If yes please fill in table N1 noise summary below			_	
	Noise			
2 Was noise monitoring carried out using the EPA Guidance note, including completion of the	Guidance	Yes		
"Checklist for noise measurement report" included in the guidance note as table 6?	<u>note NG4</u>			
3 Does your site have a noise reduction plan		No	1	
4 When was the noise reduction plan last updated?		Enter date	1	
5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) sinc	e the last noise	No		
survey?		110		

Table N1: Nois	se monitoring su	ummary									
Date of monitoring	Time neriod	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₉₅	LA _{max}		If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	ls <u>site c</u> ompliant with noise limits (daγ/evening/night)?
31/05/2018	12.21	AN1		54.2	51.4	FO DY	Petion purpose	No		Plant noise segregated from traffic noise on Stafford Street	Yes
31/05/2018	13.00	AN2		42.9	ن 41.1	d dest		No		Plant noise segregated from extraneous noise relating to the mart and residential property construction works. Likely that distant traffic may have influenced the measurement.	Yes
31/05/2018	13.47	AN3		42.5	39.7			No		Segregation necessary to isolate dogs barking and significant birdsong.	Yes

31/05/2018	14.55	AN6	41.0	38.3		No	Post processing allowed the segregation of extraneous construction noise in the vicinity.	Yes
21/08/2018	23.53	AN1	54.7	53.6		No	Arrabawn Plant noise dominates but it was necessary to pause out traffic noise events.	No
31/05/2018	1.55	AN2	43.5	42.5		No	Arrabawn Plant noise dominates but it was necessary to pause out traffic noise events.	Yes
30/05/2018	22.36	AN3	44.9	43.6		Posted for any other use	Dominated with noise from the WWTP but with some distant traffic audible from Tyone Street.	Yes
30/05/2018	23.12	ANG	44.9	43.6	For ingenion	No	Dominated with noise from the WWTP but with some distant traffic audible from Tyone Street.	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?

operational changes

As part of our licence review application to the EPA we are requesting that the EPA considers relative noise limiting levels at AN1. Noise reports have consitently highlighted that the noise level at AN1 is already above the night time limit of 45 dB due to road traffic. Works conducted in boiler room to ensure no obvious noise source contributing to this.

Any additional comments? (less than 200 words)

Year

			compared to previous reporting	Consumption +/- % vs overall site
Energy Use	Previous year			production*
Total Energy Used (MWHrs)	121094	136091		
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	22746	24653		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	0	0		
Light Fuel Oil (m3)	8	0		
Natural gas (m3)	9825113	10562891		
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				<i>a</i> .:
Renewable Biomass				5 1 ¹⁵⁰
Renewable energy generated on site				ther

2 Usage/Energy efficiency summary

Table R1 Energy usage on site

 Renewable energy generated on site
 Image: Consumption of energy can be compared to overall site production please enter this information as percentage increase compared to previous reporting year.

 ** where site production information is available please enter percentage increase or decrease compared to previous year.
 Image: Consume the previous of the previous reporting year.

 ** where site production information is available please enter percentage increase or decrease compared to previous year.
 Image: Consume the previous of the previous reporting year.

 ** where site production information is available please enter percentage increase or decrease compared to previous year.
 Image: Consume the previous of the previous reporting year.

 ** where site production information is available please enter percentage increase or decrease compared to previous year.
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 ** where site production information is available please enter percentage increase or decrease compared to previous year.
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 ** where site production information is available please enter percentage increase or decrease compared to previous year.
 Image: Consume the previous of the previous year.

 ** where site production information is available please enter percentage.
 Image: Consume the previous year.

 ** where site production information is available.
 Image: Consume the previous year.

 ** construction information information information information information informati

Production +/- %

P0791-02

Lic No:

Energy

Complaints and Incidents summary template		Lic No:	P0791-02	Year	2018
Complaints					
		Additional information			
Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below	Yes				

Inf decorption of compared first text 20 Resolution status further	Table	1 Complaints summary		٦					
LNDM LNDM LNDM LNDMM LNDMMM LNDMMMM LNDMMMMM LNDMMMMM LNDMMMMMM LNDMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	Date		Other type (please specify)	complaint (Free txt <20	Corrective action< 20 words	Resolution status	Resolution date	Further	
NNCM NNCM NNCM NNCM NNCM NNCM 100001 ONA Simplifying Simplifying Simplifying Simplifying Simplifying 100001 NNC Simplifying Simplifying Simplifying Simplifying Simplifying 100001 NNC Simplifying Simplifying Simplifying Simplifying Simplifying 100001 Simplifying Simplifying Simplifying Simplifying Simplifying 100001 Simplifying Simplifying Simplifying Simplifying Simplifying 100001 Simplifying Simplifying Simplifying Simplifying Simplifyin			1 O mean deare by	Anonymous complaint	Small amount of dust accumulating under a vent on bagging off. Unlikely to have caused a complaint. Difficult to fully investigate when caller	Complete			
NOME Nome Nome Nome Nome Nome 19033 Name Schwarter,	26/04/2018	Noise		David Moynihan, Kenyon	identified. Maintenance	Complete	14/05/2018		
NNNE	02/05/2018	Odour		Loius Crowe, Tyone,		Complete	10/05/2018		
NNMANomeProvide signal signal signal signal signal signal signal signal signal signal signal signal signal 	28/05/2018	Noise		David Moynihan, Kenyon	Noise consultant carried out assessment at his residence.	Complete	11/05/2018		
wired 0wired 1wired ausgewerter 1wired ausgewerter 	29/05/2018	Odour		Anonymous complaint via EPA	Difficult to fully investigate when caller wished to remain anonymous.	Complete	29/05/2018		
NN201 Obser Obser Obser Obser Obser Obser Obser Obser 1.100201 Obser Obser Obser Obser Obser Obser Obser Obser 1.100201 Obser Obser Obser Obser Obser Obser Obser Obser 1.100201 Obser Obs	04/07/2018	Water			River. Arrabawn discharges all	Complete	10/07/2018		
out data with an and a set of the set	09/07/2018	Odour		Mary Scanlon,	Odour control abatement	Complete	10/07/2018		
ala conduitants of a conduitants of a conduitant set of a conduita	13/08/2018	Odour		Complaint received from Loius Crowe, Tyone,	Odour control abatement issue resolved.	Complete	15/08/2018		
All condustants of a constant	21/08/2018	Odour		Loius Crowe, Tyone,	Odour assessments carried out, no odour present.	Complete	21/08/2018		s.
All condustants of a constant	31/08/2018	Odour		via EPA	Odour assessments carried out, no odour present.	Complete	05/09/2018		other
data complaints general general services data me services data	31/08/2018	Odour		Borrisokane Road, Nenazh		Complete	05/09/2018		119. 200
All condustants of a constant	31/08/2018	Odour		Notification from the County Council of		Complete	05/09/2018		es Offor
data complaints general general services data me services data	07/09/2018	Odour		Complaint via the County	landspreading. White sludge ratio reduced. Land Spreading odour assessments initiated.	Complete	11/09/2018		ALL POSCIERCE
out data with an and a set of the set	19/10/2018	Dust			PCME system closely monitored.	Complete	23/10/2018		OT X TON
All conduities 0 condit grant and start of 0 condit grant and start of 13 condit during condit grant and start of 13 condit during condit grant and start of 14 condit during conditions and start of 14 conditions and start of 14	30/10/2018	Dust		Ute Mankofp via County Council	monitored and inspections	Complete	02/11/2018		ectic wite
All condustants of a constant	30/10/2018	Dust		Dariuz Bagaj, Kenyon Street, Nenagh	PCME system closely monitored and inspections	Complete	02/11/2018		inspit of
All conduities 0 condit grant and start of 0 condit grant and start of 13 condit during condit grant and start of 13 condit during condit grant and start of 14 condit during conditions and start of 14 conditions and start of 14	30/10/2018	Dust		Linda Collins, Knocknapierce, Nenagh	monitored and inspections	Complete	02/11/2018	Q	ior vieg
out data with an and a set of the set	31/10/2018	Dust		Sean McLoughlin via County Council	PCME system closely monitored and inspections	Complete			ESS.
ala conduitants of a conduitants of a conduitant set of a conduita	02/11/2018	Dust		Geraldine Kirwan via County Council	PCME system closely monitored and inspections	Complete	02/11/2018	्र्क	¥ ⁻
ordering and a second and a se	pen at start of	0						men	
base during and a second	omplaints aceived during	19					C	7	
implaints end of 0	osed during	19							
	omplaints end of	0							
Incidents						Additional information	- 1		
Additional Information	Have any inc	idents occurred on site in the current	t reporting year? Please list all incidents for current reporting	ear in Table 2 below	Yes	1	1		
Additional information Here are incidents occurred on site in the current regorting year? Please let all incidents for current regorting year? In Table 2 below Yes			1	1					

*For information on how to report and what constitutes an incident <u>What is an incident</u>

Table 2 Incidents sun	nmarv													
						Other	Activity in				Preventative			
			Incident category*please			cause(please	progress at time			Corrective action<20			Resolution	Likelihood of
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurrence
21/06/2018	Breach of ELV	Licenced discharge point (SW2)	1. Minor	Water	Operational controls	Equipment break	Normal activities	EPA	Recurring	Valve repaired	Regular check	Complete	27/06/2018	Low
13/07/2018	Breach of ELV	Licenced discharge point (SW2)	1. Minor	Water	Operational controls	Equipment break	Normal activities	EPA	Recurring	Valve repaired	Regular check	Complete	23/07/2018	Low
10/07/2018	Uncontrolled release	Clareen Stream	1. Minor	Water	Operational controls	Equipment break	Normal activities	Local Authorities	New	Pump repaired	Close monitor	Complete	11/07/2018	Low
26/06/2018	Uncontrolled release	Fugitive Emission	1. Minor	Water	Plant or equipment issues	Equipment break	Normal activities	EPA	New	Repairs	Regular check	Complete	14/12/2018	Low
26/06/2018	Uncontrolled release	Fugitive Emission	1. Minor	Water	Plant or equipment issues	Equipment break	Normal activities	EPA	Recurring	Repairs	Regular check	Complete	14/12/2018	Low
01/03/2018	Equipment Malfunction	Licenced discharge point (SW2)	1. Minor	Water	Plant or equipment issues	Equipment break	Normal activities	EPA	New	Meter replacement	Closer monito	Complete	01/08/2018	Low
30/10/2018	Uncontrolled release	Fugitive Emission	1. Minor	Air	Plant or equipment issues	Equipment break	Normal activities	Local Authorities	New	Bag filters replaced	H & S, Training	Complete	09/11/2018	Low
Total number of incidents current year	7													
Total number of incidents previous year	8													
% reduction/ increase	13% decrease													

	Y				Lic No:	P0xxx-01		Year	2013			
SECTION A- WAST		VASTE TRANSFERRED OFF]						
	Please insert details of w	aste transferred off site in	the adjoining Waste	Management Record	i tab.							
						1						
SECTION B- WAST	E ACCEPTED ONTO SITE-TO BE CO	DIMIPLETED BY ALL IPPC A	WASTE FACILITIES)		J	Additional Information	20				
							Accuración al Informatio	1				
Were any wastes accept	ted onto your site for recovery or dispose	al or treatment prior to recovery	or disposal within the bour	ndaries of your facility ?;	waste generated within your							
	tured through PRTR reporting)					No]				
If yes please enter deta	ils in table 1 below							1				
Did your site have any r	rejected consignments of waste in the cur	rent reporting year? If yes please	mus a brief explanation in	the additional informatic	in.	SELECT						
bid your site have any i	ejected consignments of waste in the cur	rent reporting years in yes please	give a brief explanation in	ule audiconal informacio		SELECT		1				
	vaste accepted onto your site that was ger					SELECT						
	of waste accepted onto your site that was get of waste accepted onto your						ll have been re	norted in your DR	TP workbook)			
Licenced annual	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 -	1
tonnage limit for your	Ewic code	Source of waste accepted	accepted	accepted in current	previous reporting year (tonnes)	Increase over	reduction/ increase	only applies if the	treatment operation carried	waste	comments -	
site (total			Please enter an	reporting year (tonnes)		previous year +/	from previous	waste has a packaging	out at your site and the	remaining on		
tonnes/annum)			accurate and detailed description - which			- %	reporting year	component	description of this operation	site at the end of reporting		
			applies to relevant							year (tonnes)		
			EWC code							,		
	European Waste Catalogue EWC codes		European Waste									
			Catalogue EWC codes									
												-
SECTION C TO BE	COMPLETED BY ALL WASTE FACI		ione Comportant M	atorial recovery fee	lition atc) EVCEDT LANDFUL CO	T C						
Section C-TO BE	COMPLETED DT ALL WASTE FACI	cifico (waste transfer stat	ions, composters, w	ateriariecovery lac	indes etcy Excer i Databrice Sin	23						
										-		
le all maete comme .	afeastaustura as sao ' thousan t	and approved by the Access	lase2 if an alc F-+	• • • • • • • • • • • • • • • • • • •	a saavisad aasita	Ver				1	ം.	
s an waste processing i	nfrastructure as required by your licence	and approved by the Agency in p	lacer if no please list wast	e processing intrastructur	e required onsite	res				1	. 12	
										1		
Is all waste storage infra	astructure as required by your licence and	approved by the Agency in place	? If no please list waste st	orage infrastructure requ	ired on site	Yes] ;	22	
Deer veur facility have	relevant nuisance controls in place?					Yes				п. С	<u>∼</u>	
Do you have an odour r	management system in place for your facil	lity? If no why?				Yes				1. 2		
Do you maintain a sludy	ge register on site?					Yes			á	D Sr.		
			-						04	5		
SECTION D-TO BE	COMPLETED BY LANDFILL SITES (DNLY							0 S 3	Ç.		
Table 2 Waste typ	e and tonnage-landfill only				1				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
									NO :10			
			Remaining licensed						Mr Mr			
Waste types permitted	Authorised/licenced annual intake for	Actual intake for disposal in	capacity at end of	_					No ev			
for disposal	disposal (tpa)	reporting year (tpa)	reporting year (m3)	Comments	-				St. 18			
								×.				
								200	A			
									2			
Table 3 General in	formation-Landfill only							instat.	0			
Table 3 General in	formation-Landfill only							instit.	.			1
Table 3 General in	formation-Landfill only						4	or net ht		Total disposal	Lined disposal	
		Date landfilling reased	Currently landfilling	Private or Public	Inert or non-hozardous	Predicted date to	Licence permits	of the	Accepted asbestos in reporting	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlin
Table 3 General in Area ID	formation-Landfill only Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	ts there asparate cell	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlin
		Date landfilling ceased	Currently landfilling		Inert or non-hazardoas	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell (Rr by bestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlin
Area ID		Date landfilling ceased	Currently landfilling		Inert or non-hazardons	Predicted date to cease landfilling	Licence permits asbestos	Is there acquarate cell (for us bestos?	Accepted abector in reporting	Total disposal area occupied by waste SELECT UNIT	Lined disposal area occupied by waste SELECT UNIT	Unlin
Area ID		Date landfilling ceased	Currently landfilling		Inert or non-hazardous	Predicted date to cease landfilling		Is the apparate cell (Rr babestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste SELECT UNIT	Lined disposal area occupied by waste SELECT UNIT	Unlin
Area ID	Date landfilling commenced		Currently landfilling		Inert or non-hazardoes	Predicted date to cease landfilling		the begarate cell Bor subestoo?	Accepted asbestos in reporting year	Total disposal area occupied by waste SELECT UNIT	Lined disposal area occupied by waste SELECT UNIT	Unlin
Area ID Cell 8 Table 4 Environme		Date landfilling ceased	Currently landfilling		Inert or non-bazardous	Predicted date to cease landfilling	ment	in the second se	Accepted asbestos in reporting year	Total disposal area occupied by waste SELECT UNIT	Lined disposal area occupied by waste SELECT UNIT	Unlin
Area ID Cell 8 Table 4 Environme Was meterological monitoring in	Date landfilling commenced		Currently landfilling		Inert or non-hazardous	cease landfilling	Has the statement	the second cell	Accepted asbestos in reporting year	Total disposal area occupied by waste SELECT UNIT	Lined disposal area occupied by waste SELECT UNIT	Unlin
Area ID Cell 8 Table 4 Environme Was meterological monitoring in compliance with	Date landfilling commenced	Landfill Manual-Monitoring Sta	ndards		Inert or non-hazardous	cease landfilling Was topography	Has the statement under \$53(A)(5) of	s the separate cell (gr subestor?	Accepted anbestor in reporting year	Total disposal area occupied by waste SELECT UNIT	Lined disposal area occupied by waste SELECT UNIT	Unlin
Area ID Cell 8 Table 4 Environme Was meterological monitoring in compliance with Landfill Directive (LD)	Date landfilling commenced	Landfill Manual-Monitoring Sta	ndards Was SW monitored in	Operated	Taert or non-hazardoos	cease landfilling Was topography of the site	Has the statement	the spearate cell	Accepted asbestos in reporting year	Total disposal area occupied by waste SELECT UNIT	Lined disposal area occupied by waste SELECT UNIT	Unlin
Area ID Cell 8 Table 4 Environme Was meterological monitoring in compliance with Landfill Directive (LD) stundard in reporting	Date landfilling commenced	Landfill Manual-Monitoring Sta	ndards			cease landfilling Was topography	Has the statement under S\$3(A)(5) of WMA been	the second of th	Accepted arbestos in reporting year	Total disposal area occupied by waste SELECT UNIT	Lined disposal area occupied by waste SELECT UNIT	Unlin
Area ID Cell 8 Table 4 Environme Was meterological monitoring in compliance with LandRII Directive (LD) stundard in reporting year +	Date landfilling commenced	Landfil Manual-Monitoring Sta Was Landfill Gas monitored in compliance with LD standard in reporting year	ndards Was SW monitored in compliance with LD standard in reporting year	Operated Have GW trigger levels	Were emission limit values agreed with	cease landfilling Was topography of the site surveyed in	Has the statement under S83(A)(5) of WMA been submitted in	Comments	Accepted anbeston in reporting year	Total disposal area occupied by waste SELECT UNIT	Lined disposal area occupied by waste SELECT UNIT	Unline
Area ID Cell 8 Table 4 Environmu Was meterological compliance with LandhII Directive (LD) standard in reporting year + + please refer to Landf	Date landfilling commenced	Landfil Manual-Monitoring Sta Was Landfill Gas monitored in compliance with LD standard in reporting year	ndards Was SW monitored in compliance with LD standard in reporting year	Operated Have GW trigger levels	Were emission limit values agreed with	cease landfilling Was topography of the site surveyed in	Has the statement under S83(A)(5) of WMA been submitted in	Comments	Accepted anhesiss in reporting	Total disposal area occupied by waste SELECT UNIT	Lined disposal area occupied by waste SELECT UNIT	Unline
Area ID Cell 8 Table 4 Environme Was meterological monitoring in compliance with LandRII Directive (LD) stundard in reporting year +	Date landfilling commenced	Landfil Manual-Monitoring Sta Was Landfill Gas monitored in compliance with LD standard in reporting year	ndards Was SW monitored in compliance with LD standard in reporting year	Operated Have GW trigger levels	Were emission limit values agreed with	cease landfilling Was topography of the site surveyed in	Has the statement under S83(A)(5) of WMA been submitted in	Comments	Accepted arbeston in reporting year	Total disposal area occupied by waste SELECT UNIT	Lined disposal area occupied by waste SELECT UNIT	Uniind SELE
Area ID Cell 8 Table 4 Environm Was meterological monitoring in compliance with LandRII Directive (LD) stundard in reporting year + -> please refer to Landf Table 5 Capping-LL	Date landfilling commenced	Landfil Manual-Monitoring Sta Was Landfill Gas monitored in compliance with LD standard in reporting year	ndards Was SW monitored in compliance with LD standard in reporting year	Operated Have GW trigger levels here established Area with waste that	Were emission limit values agreed with	cease landfilling Was topography of the site surveyed in	Has the statement under S83(A)(5) of WMA been submitted in	Comments	Accepted anhesiss in reporting year	Total disposal area scenpied by wate SELECT UNIT	Lined disposal area ocupied by vaste SELECT UNIT	Unline
Area ID Cell 8 Table 4 Environm Was meterological compliance with LandHII Directive (LD) standard in reporting sear : -> please refer to Landf Table 5 Capping-L Area uncapped*	Date landfilling commenced ental monitoring-landfill only Wise leadshate mentiored in compliance with Dratasland in reporting year Winarual incide above for relevant Landf andfill only Area with temperary cap	Landfill Manual-Monitoring Sta Vise Landfill Gas monitored in compliance with LD standard in reporting year II Directive monitoring standards	ndards Was SW monitored in compliance with LD standard in reporting year	Operated Have GW trigger levels been established Area with waste that should be permanently	Were emission limit values agreed with	cease landfilling Was topography of the site surveyed in	Has the statement under S83(A)(5) of WMA been submitted in	An the square cell	Accepted arbeitos in reporting year	Total disposal area occupied by waste	Lined disposal area accupied by waste SELECT UNIT	Unline
Area ID Cell 8 Table 4 Environm Was meterological compliance with LandHII Directive (LD) standard in reporting sear : -> please refer to Landf Table 5 Capping-L Area uncapped*	Date landfilling commenced	Landfil Manual-Monitoring Sta Was Landfill Gas monitored in compliance with LD standard in reporting year	ndards Was SW monitored in compliance with LD standard in reporting year	Operated Have GW trigger levels here established Area with waste that	Were emission limit values agreed with	cease landfilling Was topography of the site surveyed in	Has the statement under S83(A)(5) of WMA been submitted in	The the Grademate cell	Accepted anhestor in reporting year	Total disposal area scenjed by waste SELECT UNIT	Lined disponal area scoupled by wat SELECT UNIT	Unlin
Area ID Cell 8 Table 4 Environm Was metrological compliance with Landfill Directive (LD) standard in reporting year + + plenase refer to Landf Table 5 Capping-L: Area uncapped* SELECT UNIT	Date landfilling commenced ental monitoring-landfill only Wire leachate mentioned to compliance with Do translate in reporting year III Manual Insted above for relevant Landf andfill only Area with temporary cap SELECT UNIT	Landfill Manual Monitoring Sta Was Landfill Gas monitored in compliance with LD standard in reporting year In Directive monitoring standards Arras with final cap to LD	ndards Was SW monitored in compliance with LD standard in reporting year	Operated Bave GW trigger levels been established Area with waste that should be permanently	Were endoton Emit values agreed with the Agency (EEV)	cease landfilling Was topography of the site surveyed in	Has the statement under S83(A)(5) of WMA been submitted in	A the far against cell	Accepted arbeitos in reporting year	Total disposal area occupied by waste	Lined disposal area scenpiced by wate SELECT UNIT	Unlind
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Comments or liner type

Waste Summary Continued

Please insert a copy of your Waste Management Record for waste transferred off site

Summary:	tonnes
Brown Sludge for Landspreading	5886.42
DAF Sludge (Anaerobic Digestion)	3108
Antibiotic Milk/Whey (A.D.)	1266.84
Mixed Waste	232.49
Paper/Cardboard	17
Organic Canteen Waste	0.33
Iron and Steel	69.71
Copper	0.33
Oil	2.3
Absorbent/Spill materials	8.73
Sodium Hydroxide	3.04
Contaminated Polyelectrolyte	18.15

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