

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.

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Facility Information Summary	
AER Reporting Year	2018
Licence Register Number	P0791-02
Name of site	Arrabawn Co-operative Society Limited
Site Location	Stafford Street, Nenagh, Co. Tipperary
NACE Code	1051
Class/Classes of Activity	7.2.1
National Grid Reference (6E, 6 N)	187600E 178750N
<p>A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.</p>	<p>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 nighttime 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, 24/7 shift manager cover on site and with WWTP operators on call out of hours supported by remote access to the plant via tablet.</p>

Declaration:

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

Alan Kelly	28th March 2019
Signature	Date
Group/Facility manager	
(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 do not 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	
-----	--

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 Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
A2-1	volumetric flow	Annual	10900	All 1-hour averages < ELV	19273	m3/hr	Do (if no 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	SELECT		

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

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AIR-summary template	Lic No: P0791-02	Year: 2018
Continuous Monitoring		

4 Does your site carry out continuous air emissions monitoring?

If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below

6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?

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

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
	SELECT			SELECT	SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

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

Table A3: Abatement system bypass reporting table [Bypass protocol](#)

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

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

** an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link

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AIR-summary template		Lic No: P0791-02	Year: 2018	
Solvent use and management on site				
8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5			No	
Table A4: Solvent Management Plan Summary Total VOC Emission limit value		Please refer to linked solvent regulations to complete table 5 and 6 Solvent regulations		
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	
			Total Emission Limit Value (ELV) in licence or any revision thereof	
			SELECT	
			SELECT	
Table A5: Solvent Mass Balance summary				
	(I) Inputs (kg)	(O) Outputs (kg)		
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 on site through
				Total emission of Solvent to air (kg)
				Total

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		Additional information	
1	Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licensed emissions you <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections	Yes	RW2 dry throughout 2018. RW3 removed on the 04/10/2018 as part of construction works for the new Casein plant.
2	Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising <u>only</u> any evidence of contamination noted during visual inspections	Yes	

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
RW1	onsite	SELECT	BOD	29/03/2018	NA	SELECT	7	mg/L	yes	
RW3	onsite	SELECT	BOD	29/03/2018	NA	SELECT	8	mg/L	yes	
RW1	onsite	SELECT	BOD	03/05/2018	NA	SELECT	<2	mg/L	yes	
RW3	onsite	SELECT	BOD	03/05/2018	NA	SELECT	9	mg/L	yes	
RW1	onsite	SELECT	BOD	26/07/2018	NA	SELECT	<2	mg/L	yes	
RW3	onsite	SELECT	BOD	26/07/2018	NA	SELECT	<2	mg/L	yes	
RW1	onsite	SELECT	BOD	25/10/2018	NA	SELECT	<2	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.

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
			SELECT		
			SELECT		

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

		Additional information	
3	Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below	Yes	
4	Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box	Yes	

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

Emission reference no:	Emission released to	Parameter/ Substance>Note 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof ^{Note 2}	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (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

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

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

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

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

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	
-----	--

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

Yes	DAF150 poly pump malfunctioned. Spare now on site.
-----	--

Table W4: Summary of average emissions -continuous monitoring

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

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

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Bund testing dropdown menu click to see options

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

- Please provide integrity testing frequency period
- Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and 3 mobile bunds)
- How many bunds are on site?
- How many of these bunds have been tested within the required test schedule?
- How many mobile bunds are on site?
- Are the mobile bunds included in the bund test schedule?
- How many of these mobile bunds have been tested within the required test schedule?
- How many sumps on site are included in the integrity test schedule?
- How many of these sumps are integrity tested within the test schedule?

Please list any sump integrity failures in table B1

- Do all sumps and chambers have high level liquid alarms?
- If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
- Is the Fire Water Retention Pond included in your integrity test programme?

Additional information	
Yes	
3 years	Apr-17
Yes	
27	
27	
17	
Yes	
17	
17	Apr-17
12	
Yes	
Yes	
N/A	

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

Bund/Containment Structure ID	Type	Specify Other type	Product contained	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest if in current reporting year
1	Metal Chemstore		Production Chemicals	1.2 m3	2.4 lbc's	Hydraulic test	Structural assessment	19/04/2017	Yes	Fail	Not watertight	Base of bunds relined	Apr-20	Pass
5a	prefabricated		Cleaning Chemicals	266 litres	1100 litres	Hydraulic test	Structural assessment	19/04/2017	Yes	Fail	Seepage, unsealed pipe & holes	Holes sealed & valves fitted	Apr-20	Pass
6	prefabricated		Production Chemicals	95 m3	99 m3	Structural assessment		19/04/2017	Yes	Fail	Leakage & minor punctures	Lines repaired	Apr-20	Pass
9	Cylindrical plastic bund		Production Chemicals	1.18 m3	1100 L	Structural assessment		19/04/2017	Yes	Fail	Puncture in the side	Bund replaced	Apr-20	Pass

* Capacity required should comply with 20% or 10% containment rate as detailed in your licence
 Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?
 15 Are channel/transfer systems to remote containment systems tested?
 16 Are channel/transfer systems compliant in both integrity and available volume?
 17

Commentary	
Yes	
Yes	
Yes	

Pipeline/Underground structure testing

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

- Please provide integrity testing frequency period

*Please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

Yes	
3 years	

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

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest if in current reporting year
65	Process	other(please specify) VC	Yes	GRP	Air	Yes	Pass	N/A	N/A	2021	
68	Process	steel	Yes	GRP	Air	Yes	Pass	N/A	N/A	2021	
70	Process	concrete	No				Defects in the line			2015	
108	Process	pvc	Yes	GRP	Air	Yes	Pass	N/A	N/A	2021	
110	Process	pvc	Yes	GRP	Air	Yes	Pass	N/A	N/A	2021	
	Process	pvc	No				Discrepancy between references and actual reading			2015	

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

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

Please enter interpretation of data here

Table 1: Upgradient Groundwater monitoring results

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

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

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

Groundwater/Soil monitoring template	Lic No: P0791-02	Year: 2018
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*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA. [Groundwater monitoring template](#)

More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance [Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#) (see the link in G31)

**Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS) [Groundwater regulations](#) [Drinking water \(private supply\) standards](#) [Surface water EQS](#) [Drinking water \(public supply\) standards](#) [Interim Guideline Values \(IGV\)](#)

Table 3: Soil results

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

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

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Environmental Liabilities template		Lic No:	P0791-02	Year	2018
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,	
7	Financial provision for ELRA expiry date	NA	
8	Closure plan initial agreement status	Closure plan 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 Environmental Impairment Liability cover,	
13	Financial provision for Closure expiry date	15/08/2018	

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Environmental Management Programme/Continuous Improvement Programme template Lic No: P0791-02 Year: 2018

Highlighted cells contain dropdown menu click to view		Additional Information	
1	Do you maintain an Environmental Management System (EMS) for the site. If yes, please detail in additional information	Yes	EMS based on ISO 14001
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes	

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to 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. Remote tablet system installed with 24 hour remote access possible. On going COD reduction programme at site level to reduce the loading on the WWTP. Comprehensive training completed on WWTP operation by all 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 action taken if ELV start to rise. Reduction on COD from 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 WWTP has eliminated odour issues. Dust monitor in place and all operators and managers have received training in environmental awareness. SMS dust text alert/alarms now in place.	Environmental Manager & Environmental Officer	Improved systems in place to manage emissions with trigger levels set on the SMS alarm system
Noise reduction	Comply with the 55/45db limit at site boundary	In progress	In 2018 noise survey monitoring point AN1 exceeded the night time limit as per ICAN 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	License review application submitted to the EPA
Environmental Management	Implement Certified Environmental Management System to manage environmental responsibilities	In progress	Apply for certification 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,

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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

2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?

[Noise
Guidance
note NG4](#)

Yes

3 Does your site have a noise reduction plan

No

4 When was the noise reduction plan last updated?

Enter date

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

No

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 ₉₅	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
31/05/2018	12.21	AN1		54.2	51.4			No		Plant noise segregated from traffic noise on Stafford Street	Yes
31/05/2018	13.00	AN2		42.9	41.1			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			No		Dominated with noise from the WWTP but with some distant traffic audible from Tyone Street.	Yes
30/05/2018	23.12	AN6		44.9	43.6			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 consistently 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)

Usage/Energy efficiency summary	Lic No: P0791-02	Year
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Table R1 Energy usage on site				
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site 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)				
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.

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Complaints and Incidents summary template Lic No: PD791-02 Year: 2018

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	Additional information
-----	------------------------

Date	Category	Other type (please specify)	Brief description of complaint (Free text <20 words)	Corrective actions: 20 words	Resolution status	Resolution date	Further information
16/04/2018	Dust		Anonymous complaint via EPA	Small amount of dust accumulating under a vent on bagging off. Unlikely to have caused a complaint. Difficult to fully investigate when caller wished to remain anonymous.	Complete	20/04/2018	
26/04/2018	Noise		Complaint received from David Moylhan, Kenyon Street, Nenagh	2 possible sources of noise identified. Maintenance resolved both potential sources.	Complete	14/05/2018	
02/05/2018	Odour		Complaint received from Lolus Crowe, Tyone, Nenagh	Odour control abatement increased.	Complete	10/05/2018	
28/05/2018	Noise		Complaint received from David Moylhan, Kenyon Street, Nenagh	Noise consultant carried out assessment at his residence.	Complete	11/06/2018	
29/05/2018	Odour		Anonymous complaint via EPA	Odour assessments carried out. Difficult to fully investigate when caller wished to remain anonymous.	Complete	29/05/2018	
04/07/2018	Water		Ormond Anglers complaint via EPA	No evidence in the Nenagh River. Aridown discharge at under ELV's.	Complete	10/07/2018	
09/07/2018	Odour		Complaint received from Mary Scanlon, Ballinrother, Nenagh	Odour control abatement increased.	Complete	10/07/2018	
11/08/2018	Odour		Complaint received from Lolus Crowe, Tyone, Nenagh	Odour control abatement issue resolved.	Complete	15/08/2018	
21/08/2018	Odour		Complaint received from Lolus Crowe, Tyone, Nenagh	Odour assessments carried out. no odour present.	Complete	21/08/2018	
31/08/2018	Odour		Mary Guirins complaint via EPA	Odour assessments carried out. no odour present.	Complete	05/09/2018	
31/08/2018	Odour		Ethna Butler, Borrisokane Road, Nenagh	Odour assessments carried out. no odour present.	Complete	05/09/2018	
31/08/2018	Odour		Notification from the County Council of complaints	Odour assessments carried out. no odour present.	Complete	05/09/2018	
07/09/2018	Odour		Complaint via the County Council	Complaint regarding landspreading. White sledge ratio reduced. Land spreading odour assessments initiated.	Complete	11/09/2018	
19/10/2018	Dust		Neala Kennedy, Knocknaglene, Nenagh	Burst bags in Niro 2 replaced & PCME system closely monitored.	Complete	23/10/2018	
30/10/2018	Dust		Lite Mankoff via County Council	PCME system closely monitored and inspections carried out.	Complete	02/11/2018	
30/10/2018	Dust		Daricee Bagaj, Kenyon Street, Nenagh	PCME system closely monitored and inspections carried out.	Complete	02/11/2018	
30/10/2018	Dust		Linda Collins, Knocknaglene, Nenagh	PCME system closely monitored and inspections carried out.	Complete	02/11/2018	
31/10/2018	Dust		Sean McLaughlin via County Council	PCME system closely monitored and inspections carried out.	Complete	02/11/2018	
02/11/2018	Dust		Gerardine Kirwan via County Council	PCME system closely monitored and inspections carried out.	Complete	02/11/2018	
Total complaints open at start of reporting year	0						
Total new complaints received during reporting year	19						
Total complaints closed during reporting year	19						
Balance of complaints end of reporting year	0						

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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

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

Date of occurrence	Incident nature	Location of occurrence	Incident category* please refer to guidance	Receptor	Cause of incident	Other cause please refer to guidance	Activity in progress at time of incident	Communication	Occurrence	Corrective action <20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of recurrence
21/06/2018	Breach of ELV	Licensed 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	Licensed discharge point (SW2)	1 Minor	Water	Operational controls	Equipment break	Normal activities	EPA	Recurring	Valve repaired	Regular check	Complete	23/07/2018	Low
18/07/2018	Uncontrolled release	Chimney stream	1 Minor	Water	Operational controls	Equipment break	Normal activities	Local Authorities	New	Panel replaced	Clear monitor	Complete	11/09/2018	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
03/05/2018	Equipment malfunction	Licensed discharge point (SW2)	1 Minor	Water	Plant or equipment issues	Equipment break	Normal activities	EPA	New	Meter replacement	Clear monitor	Complete	05/08/2018	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													

WASTE SUMMARY	Lic No: P000-01	Year: 2013
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SECTION A- WASTE MANAGEMENT RECORD FOR WASTE TRANSFERRED OFF SITE

Please insert details of waste transferred off site in the adjoining Waste Management Record tab.

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

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

Additional Information	
Yes	

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

SELECT	
--------	--

3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

SELECT	
--------	--

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

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

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

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

Yes	
-----	--

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

Yes	
-----	--

6 Does your facility have relevant nuisance controls in place?

Yes	
-----	--

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

Yes	
-----	--

8 Do you maintain a sludge register on site?

Yes	
-----	--

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 (t/a)	Actual intake for disposal in reporting year (t/a)	Remaining licensed capacity at end of reporting year (t/a)	Comments

Table 3 General information-landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										SELECT UNIT	SELECT UNIT	SELECT UNIT	
Cell 8													

Table 4 Environmental monitoring-landfill only

[Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year?	Was leachate monitored in compliance with LD standard in reporting year?	Was Landfill Gas monitored in compliance with LD standard in reporting year?	Was SW monitored in compliance with LD standard in reporting year?	Have GW trigger-levels been established?	Were emission limit values agreed with the Agency (ELVs)?	Was topography of the site surveyed in reporting year?	Has the statement under S33A(5) of WMA been submitted in reporting year?	Comments

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

Table 5 Capping-Landfill only

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m ² ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					

*please note this includes daily cover area

Table 6 Leachate-Landfill only

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

SELECT

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

SELECT

Volume of leachate in reporting year(m ³)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH ₄) mass load (kg/annum)	Leachate (Chloride) mass load (kg/annum)	Leachate treatment on-site	Specify type of leachate treatment	Comments

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

Table 7 Landfill Gas-Landfill only

Gas Captured&Treated by LFG System m ³	Power generated (MW/ KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
			SELECT	

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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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