

Facility Information Summary	
AER Reporting Year	2018
Licence Register Number	P0807-01
Name of site	R&A Bailey & Company
Site Location	Nangor House, Nangor Road, Western Estate, Dublin 12
NACE Code	1101
Class/Classes of Activity	7.8 (a) (iii): Food and Drink
National Grid Reference (6E, 6 N)	308879E, 231946N

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.

R&A Bailey & Company is a cream liqueur manufacturing plant, located on a site of approx. 9.3 hectares at Nangor Road, Dublin 12. The facility produces Baileys cream liqueur, Sheridan's (a coffee layered liqueur) and a whiskey product called Roe & Co (since 2017). The site operations are broken down into Production; Bottling; Warehouse and Dispatch; Environmental Systems; Utilities; and Laboratory and Office Activities. During 2018 production at the site during the reporting year increased by 10% from the previous reporting year. In 2018, the site procured and implemented a new process to apply a sleeve to bottles in place of labels. The site had 2 no. reportable incidents in 2018, both of a minor category. There have been no environmental complaints received by the site in 2018.

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.

	30/4/2019
Signature Group/Facility manager (or nominated, suitably qualified and experienced deputy)	Date

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Answer all questions and complete all tables where relevant

1 Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licensed emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables

Additional information	
No	No licensed Main Air Emission Points on site. Boiler Efficiency testing for Boiler 1 (Air emission point (A1-1) and Boiler 2 (Air emission point (A1-2)) was completed in March 2018 and the results are presented below.

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

N/A	
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3 Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? [Basic air monitoring checklist](#) [AGN2](#)

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

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments -reason for change in % mass load from previous year if applicable
A1-1	Carbon Monoxide (CO)	Annually	N/A	N/A	0.7	mg/m3	N/A	OTH	N/A	Boiler 2 (Natural Gas)
A1-1	Carbon Monoxide (CO)	Annually	N/A	N/A	0	mg/m3	N/A	OTH	N/A	Boiler 2 (Fuel Oil)
A1-1	Nitrogen Oxides (NOx)	Annually	N/A	N/A	175.1	mg/m3	N/A	OTH	N/A	Boiler 2 (Natural Gas)
A1-1	Nitrogen Oxides (NOx)	Annually	N/A	N/A	236.7	mg/m3	N/A	OTH	N/A	Boiler 2 (Fuel Oil)
A1-1	Sulphur dioxide (SO2)	Annually	N/A	N/A	0	mg/m3	N/A	OTH	N/A	Boiler 2 (Natural Gas)
A1-1	Sulphur dioxide (SO2)	Annually	N/A	N/A	58.3	mg/m3	N/A	OTH	N/A	Boiler 2 (Fuel Oil)
A1-2	Carbon Monoxide (CO)	Annually	N/A	N/A	3.9	mg/m3	N/A	OTH	N/A	Boiler 1 (Natural Gas)
A1-2	Carbon Monoxide (CO)	Annually	N/A	N/A	0	mg/m3	N/A	OTH	N/A	Boiler 1 (Fuel Oil)
A1-2	Nitrogen Oxides (NOx)	Annually	N/A	N/A	227.9	mg/m3	N/A	OTH	N/A	Boiler 1 (Natural Gas)

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A1-2	Nitrogen Oxides (NOx)	Annually	N/A	N/A	287.7	mg/m3	N/A	OTH	N/A	Boiler 1 (Fuel Oil)
A1-2	Sulphur dioxide (SO2)	Annually	N/A	N/A	1.2	mg/m3	N/A	OTH	N/A	Boiler 1 (Natural Gas)
A1-2	Sulphur dioxide (SO2)	Annually	N/A	N/A	15.8	mg/m3	N/A	OTH	N/A	Boiler 1 (Fuel Oil)

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

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Continuous Monitoring		

<p>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)</p>	No	
<p>5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below</p>	N/A	
<p>6 Do you have a proactive service agreement for each piece of continuous monitoring equipment?</p>	N/A	
<p>7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below</p>	N/A	

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

Yes	No emissions to surface water of environmental significance. There is 1 emission to sewer at SE-1.
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2 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections

Yes	Visual inspections are carried out on stormwater emissions, at points SW1,SW2,SW3 & SW4. There was no contamination noted during visual inspections in 2018.
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Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
upstream of SW1	upstream	N/A	COD	January	N/A	N/A	17.20	mg/L	N/A	Results provided are averages of weekly monitoring results
upstream of SW1	upstream	N/A	COD	February	N/A	N/A	12.33	mg/L	N/A	
upstream of SW1	upstream	N/A	COD	March	N/A	N/A	13.75	mg/L	N/A	
upstream of SW1	upstream	N/A	COD	April	N/A	N/A	11.75	mg/L	N/A	
upstream of SW1	upstream	N/A	COD	May	N/A	N/A	18.60	mg/L	N/A	
upstream of SW1	upstream	N/A	COD	June	N/A	N/A	481.25	mg/L	N/A	There was a high COD result for upstream sample point SW1 on 5th June 2018 - all samples from site and downstream SW drains were at the normal levels.
upstream of SW1	upstream	N/A	COD	July	N/A	N/A	18.80	mg/L	N/A	
upstream of SW1	upstream	N/A	COD	August	N/A	N/A	13.00	mg/L	N/A	
upstream of SW1	upstream	N/A	COD	September	N/A	N/A	13.43	mg/L	N/A	
upstream of SW1	upstream	N/A	COD	October	N/A	N/A	8.60	mg/L	N/A	
upstream of SW1	upstream	N/A	COD	November	N/A	N/A	13.75	mg/L	N/A	
upstream of SW1	upstream	N/A	COD	December	N/A	N/A	13.67	mg/L	N/A	
upstream of SW1	upstream	N/A	Temperature	January	N/A	N/A	7.76	degrees C	N/A	
upstream of SW1	upstream	N/A	Temperature	February	N/A	N/A	5.63	degrees C	N/A	
upstream of SW1	upstream	N/A	Temperature	March	N/A	N/A	7.38	degrees C	N/A	
upstream of SW1	upstream	N/A	Temperature	April	N/A	N/A	10.18	degrees C	N/A	
upstream of SW1	upstream	N/A	Temperature	May	N/A	N/A	14.56	degrees C	N/A	
upstream of SW1	upstream	N/A	Temperature	June	N/A	N/A	17.58	degrees C	N/A	
upstream of SW1	upstream	N/A	Temperature	July	N/A	N/A	19.70	degrees C	N/A	
upstream of SW1	upstream	N/A	Temperature	August	N/A	N/A	16.83	degrees C	N/A	
upstream of SW1	upstream	N/A	Temperature	September	N/A	N/A	13.75	degrees C	N/A	
upstream of SW1	upstream	N/A	Temperature	October	N/A	N/A	10.60	degrees C	N/A	
upstream of SW1	upstream	N/A	Temperature	November	N/A	N/A	9.05	degrees C	N/A	
upstream of SW1	upstream	N/A	Temperature	December	N/A	N/A	8.50	degrees C	N/A	
upstream of SW1	upstream	N/A	pH	January	N/A	N/A	8.16	pH units	N/A	
upstream of SW1	upstream	N/A	pH	February	N/A	N/A	8.20	pH units	N/A	
upstream of SW1	upstream	N/A	pH	March	N/A	N/A	8.20	pH units	N/A	
upstream of SW1	upstream	N/A	pH	April	N/A	N/A	8.35	pH units	N/A	
upstream of SW1	upstream	N/A	pH	May	N/A	N/A	8.40	pH units	N/A	
upstream of SW1	upstream	N/A	pH	June	N/A	N/A	8.35	pH units	N/A	
upstream of SW1	upstream	N/A	pH	July	N/A	N/A	8.32	pH units	N/A	
upstream of SW1	upstream	N/A	pH	August	N/A	N/A	8.23	pH units	N/A	
upstream of SW1	upstream	N/A	pH	September	N/A	N/A	8.23	pH units	N/A	
upstream of SW1	upstream	N/A	pH	October	N/A	N/A	8.10	pH units	N/A	
upstream of SW1	upstream	N/A	pH	November	N/A	N/A	7.98	pH units	N/A	
upstream of SW1	upstream	N/A	pH	December	N/A	N/A	7.37	pH units	N/A	
upstream of SW1	upstream	N/A	Conductivity	January	N/A	N/A	598.00	µS/cm @20oC	N/A	
upstream of SW1	upstream	N/A	Conductivity	February	N/A	N/A	637.00	µS/cm @20oC	N/A	
upstream of SW1	upstream	N/A	Conductivity	March	N/A	N/A	656.25	µS/cm @20oC	N/A	
upstream of SW1	upstream	N/A	Conductivity	April	N/A	N/A	547.75	µS/cm @20oC	N/A	
upstream of SW1	upstream	N/A	Conductivity	May	N/A	N/A	552.20	µS/cm @20oC	N/A	
upstream of SW1	upstream	N/A	Conductivity	June	N/A	N/A	563.50	µS/cm @20oC	N/A	
upstream of SW1	upstream	N/A	Conductivity	July	N/A	N/A	552.60	µS/cm @20oC	N/A	
upstream of SW1	upstream	N/A	Conductivity	August	N/A	N/A	532.75	µS/cm @20oC	N/A	
upstream of SW1	upstream	N/A	Conductivity	September	N/A	N/A	561.50	µS/cm @20oC	N/A	
upstream of SW1	upstream	N/A	Conductivity	October	N/A	N/A	609.60	µS/cm @20oC	N/A	
upstream of SW1	upstream	N/A	Conductivity	November	N/A	N/A	558.25	µS/cm @20oC	N/A	
upstream of SW1	upstream	N/A	Conductivity	December	N/A	N/A	393.00	µS/cm @20oC	N/A	
SW1	upstream	N/A	COD	January	N/A	N/A	12.80	mg/L	N/A	
SW1	upstream	N/A	COD	February	N/A	N/A	15.67	mg/L	N/A	
SW1	upstream	N/A	COD	March	N/A	N/A	13.75	mg/L	N/A	
SW1	upstream	N/A	COD	April	N/A	N/A	11.25	mg/L	N/A	
SW1	upstream	N/A	COD	May	N/A	N/A	17.80	mg/L	N/A	
SW1	upstream	N/A	COD	June	N/A	N/A	20.25	mg/L	N/A	

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SW1	upstream	N/A	COD	July	N/A	N/A	15.00	mg/L	N/A
SW1	upstream	N/A	COD	August	N/A	N/A	13.58	mg/L	N/A
SW1	upstream	N/A	COD	September	N/A	N/A	14.75	mg/L	N/A
SW1	upstream	N/A	COD	October	N/A	N/A	11.40	mg/L	N/A
SW1	upstream	N/A	COD	November	N/A	N/A	14.50	mg/L	N/A
SW1	upstream	N/A	COD	December	N/A	N/A	12.33	mg/L	N/A
SW1	upstream	N/A	Temperature	January	N/A	N/A	7.76	degrees C	N/A
SW1	upstream	N/A	Temperature	February	N/A	N/A	5.80	degrees C	N/A
SW1	upstream	N/A	Temperature	March	N/A	N/A	7.40	degrees C	N/A
SW1	upstream	N/A	Temperature	April	N/A	N/A	10.05	degrees C	N/A
SW1	upstream	N/A	Temperature	May	N/A	N/A	14.42	degrees C	N/A
SW1	upstream	N/A	Temperature	June	N/A	N/A	17.65	degrees C	N/A
SW1	upstream	N/A	Temperature	July	N/A	N/A	19.80	degrees C	N/A
SW1	upstream	N/A	Temperature	August	N/A	N/A	16.38	degrees C	N/A
SW1	upstream	N/A	Temperature	September	N/A	N/A	13.90	degrees C	N/A
SW1	upstream	N/A	Temperature	October	N/A	N/A	11.06	degrees C	N/A
SW1	upstream	N/A	Temperature	November	N/A	N/A	8.95	degrees C	N/A
SW1	upstream	N/A	Temperature	December	N/A	N/A	8.30	degrees C	N/A
SW1	upstream	N/A	pH	January	N/A	N/A	8.16	pH units	N/A
SW1	upstream	N/A	pH	February	N/A	N/A	8.23	pH units	N/A
SW1	upstream	N/A	pH	March	N/A	N/A	8.13	pH units	N/A
SW1	upstream	N/A	pH	April	N/A	N/A	8.23	pH units	N/A
SW1	upstream	N/A	pH	May	N/A	N/A	8.30	pH units	N/A
SW1	upstream	N/A	pH	June	N/A	N/A	8.25	pH units	N/A
SW1	upstream	N/A	pH	July	N/A	N/A	8.18	pH units	N/A
SW1	upstream	N/A	pH	August	N/A	N/A	8.18	pH units	N/A
SW1	upstream	N/A	pH	September	N/A	N/A	8.28	pH units	N/A
SW1	upstream	N/A	pH	October	N/A	N/A	8.00	pH units	N/A
SW1	upstream	N/A	pH	November	N/A	N/A	7.98	pH units	N/A
SW1	upstream	N/A	pH	December	N/A	N/A	8.00	pH units	N/A
SW1	upstream	N/A	Conductivity	January	N/A	N/A	591.60	µS/cm @20oC	N/A
SW1	upstream	N/A	Conductivity	February	N/A	N/A	641.33	µS/cm @20oC	N/A
SW1	upstream	N/A	Conductivity	March	N/A	N/A	652.50	µS/cm @20oC	N/A
SW1	upstream	N/A	Conductivity	April	N/A	N/A	548.00	µS/cm @20oC	N/A
SW1	upstream	N/A	Conductivity	May	N/A	N/A	553.00	µS/cm @20oC	N/A
SW1	upstream	N/A	Conductivity	June	N/A	N/A	564.75	µS/cm @20oC	N/A
SW1	upstream	N/A	Conductivity	July	N/A	N/A	522.20	µS/cm @20oC	N/A
SW1	upstream	N/A	Conductivity	August	N/A	N/A	519.00	µS/cm @20oC	N/A
SW1	upstream	N/A	Conductivity	September	N/A	N/A	600.50	µS/cm @20oC	N/A
SW1	upstream	N/A	Conductivity	October	N/A	N/A	665.00	µS/cm @20oC	N/A
SW1	upstream	N/A	Conductivity	November	N/A	N/A	549.75	µS/cm @20oC	N/A
SW1	upstream	N/A	Conductivity	December	N/A	N/A	601.00	µS/cm @20oC	N/A
SW2	downstream	N/A	COD	January	N/A	N/A	14.00	mg/L	N/A
SW2	downstream	N/A	COD	February	N/A	N/A	18.33	mg/L	N/A
SW2	downstream	N/A	COD	March	N/A	N/A	16.50	mg/L	N/A
SW2	downstream	N/A	COD	April	N/A	N/A	15.00	mg/L	N/A
SW2	downstream	N/A	COD	May	N/A	N/A	30.20	mg/L	N/A
SW2	downstream	N/A	COD	June	N/A	N/A	46.25	mg/L	N/A
SW2	downstream	N/A	COD	July	N/A	N/A	79.80	mg/L	N/A
SW2	downstream	N/A	COD	August	N/A	N/A	35.68	mg/L	N/A
SW2	downstream	N/A	COD	September	N/A	N/A	37.48	mg/L	N/A
SW2	downstream	N/A	COD	October	N/A	N/A	19.40	mg/L	N/A
SW2	downstream	N/A	COD	November	N/A	N/A	42.75	mg/L	N/A
SW2	downstream	N/A	COD	December	N/A	N/A	12.00	mg/L	N/A
SW2	downstream	N/A	Temperature	January	N/A	N/A	9.94	degrees C	N/A
SW2	downstream	N/A	Temperature	February	N/A	N/A	7.93	degrees C	N/A
SW2	downstream	N/A	Temperature	March	N/A	N/A	8.68	degrees C	N/A
SW2	downstream	N/A	Temperature	April	N/A	N/A	10.98	degrees C	N/A
SW2	downstream	N/A	Temperature	May	N/A	N/A	12.62	degrees C	N/A
SW2	downstream	N/A	Temperature	June	N/A	N/A	15.33	degrees C	N/A
SW2	downstream	N/A	Temperature	July	N/A	N/A	17.36	degrees C	N/A
SW2	downstream	N/A	Temperature	August	N/A	N/A	15.05	degrees C	N/A
SW2	downstream	N/A	Temperature	September	N/A	N/A	13.23	degrees C	N/A
SW2	downstream	N/A	Temperature	October	N/A	N/A	11.66	degrees C	N/A
SW2	downstream	N/A	Temperature	November	N/A	N/A	11.35	degrees C	N/A
SW2	downstream	N/A	Temperature	December	N/A	N/A	10.10	degrees C	N/A
SW2	downstream	N/A	pH	January	N/A	N/A	7.68	pH units	N/A
SW2	downstream	N/A	pH	February	N/A	N/A	7.93	pH units	N/A
SW2	downstream	N/A	pH	March	N/A	N/A	7.88	pH units	N/A
SW2	downstream	N/A	pH	April	N/A	N/A	7.78	pH units	N/A
SW2	downstream	N/A	pH	May	N/A	N/A	7.96	pH units	N/A
SW2	downstream	N/A	pH	June	N/A	N/A	7.95	pH units	N/A
SW2	downstream	N/A	pH	July	N/A	N/A	8.04	pH units	N/A
SW2	downstream	N/A	pH	August	N/A	N/A	8.08	pH units	N/A
SW2	downstream	N/A	pH	September	N/A	N/A	8.00	pH units	N/A
SW2	downstream	N/A	pH	October	N/A	N/A	7.56	pH units	N/A
SW2	downstream	N/A	pH	November	N/A	N/A	7.63	pH units	N/A
SW2	downstream	N/A	pH	December	N/A	N/A	7.60	pH units	N/A
SW2	downstream	N/A	Conductivity	January	N/A	N/A	792.80	µS/cm @20oC	N/A
SW2	downstream	N/A	Conductivity	February	N/A	N/A	1256.67	µS/cm @20oC	N/A
SW2	downstream	N/A	Conductivity	March	N/A	N/A	990.00	µS/cm @20oC	N/A

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SW2	downstream	N/A	Conductivity	April	N/A	N/A	940.00	µS/cm @20oC	N/A	
SW2	downstream	N/A	Conductivity	May	N/A	N/A	1202.00	µS/cm @20oC	N/A	
SW2	downstream	N/A	Conductivity	June	N/A	N/A	995.25	µS/cm @20oC	N/A	
SW2	downstream	N/A	Conductivity	July	N/A	N/A	736.00	µS/cm @20oC	N/A	
SW2	downstream	N/A	Conductivity	August	N/A	N/A	733.50	µS/cm @20oC	N/A	
SW2	downstream	N/A	Conductivity	September	N/A	N/A	578.75	µS/cm @20oC	N/A	
SW2	downstream	N/A	Conductivity	October	N/A	N/A	1414.20	µS/cm @20oC	N/A	
SW2	downstream	N/A	Conductivity	November	N/A	N/A	568.25	µS/cm @20oC	N/A	
SW2	downstream	N/A	Conductivity	December	N/A	N/A	760.67	µS/cm @20oC	N/A	
SW3	downstream	N/A	COD	January	N/A	N/A	13.80	mg/L	N/A	
SW3	downstream	N/A	COD	February	N/A	N/A	19.33	mg/L	N/A	
SW3	downstream	N/A	COD	March	N/A	N/A	15.00	mg/L	N/A	
SW3	downstream	N/A	COD	April	N/A	N/A	15.75	mg/L	N/A	
SW3	downstream	N/A	COD	May	N/A	N/A	25.80	mg/L	N/A	
SW3	downstream	N/A	COD	June	N/A	N/A	53.50	mg/L	N/A	
SW3	downstream	N/A	COD	July	N/A	N/A	20.18	mg/L	N/A	
SW3	downstream	N/A	COD	August	N/A	N/A	17.65	mg/L	N/A	
SW3	downstream	N/A	COD	September	N/A	N/A	20.75	mg/L	N/A	
SW3	downstream	N/A	COD	October	N/A	N/A	9.20	mg/L	N/A	
SW3	downstream	N/A	COD	November	N/A	N/A	39.25	mg/L	N/A	
SW3	downstream	N/A	COD	December	N/A	N/A	17.00	mg/L	N/A	
SW3	downstream	N/A	Temperature	January	N/A	N/A	8.12	degrees C	N/A	
SW3	downstream	N/A	Temperature	February	N/A	N/A	6.63	degrees C	N/A	
SW3	downstream	N/A	Temperature	March	N/A	N/A	7.50	degrees C	N/A	
SW3	downstream	N/A	Temperature	April	N/A	N/A	10.15	degrees C	N/A	
SW3	downstream	N/A	Temperature	May	N/A	N/A	13.56	degrees C	N/A	
SW3	downstream	N/A	Temperature	June	N/A	N/A	16.65	degrees C	N/A	
SW3	downstream	N/A	Temperature	July	N/A	N/A	19.26	degrees C	N/A	
SW3	downstream	N/A	Temperature	August	N/A	N/A	16.88	degrees C	N/A	
SW3	downstream	N/A	Temperature	September	N/A	N/A	15.43	degrees C	N/A	
SW3	downstream	N/A	Temperature	October	N/A	N/A	12.66	degrees C	N/A	
SW3	downstream	N/A	Temperature	November	N/A	N/A	10.43	degrees C	N/A	
SW3	downstream	N/A	Temperature	December	N/A	N/A	8.53	degrees C	N/A	
SW3	downstream	N/A	pH	January	N/A	N/A	8.14	pH units	N/A	
SW3	downstream	N/A	pH	February	N/A	N/A	8.17	pH units	N/A	
SW3	downstream	N/A	pH	March	N/A	N/A	8.23	pH units	N/A	
SW3	downstream	N/A	pH	April	N/A	N/A	8.23	pH units	N/A	
SW3	downstream	N/A	pH	May	N/A	N/A	8.14	pH units	N/A	
SW3	downstream	N/A	pH	June	N/A	N/A	7.90	pH units	N/A	
SW3	downstream	N/A	pH	July	N/A	N/A	7.98	pH units	N/A	
SW3	downstream	N/A	pH	August	N/A	N/A	8.20	pH units	N/A	
SW3	downstream	N/A	pH	September	N/A	N/A	8.08	pH units	N/A	
SW3	downstream	N/A	pH	October	N/A	N/A	8.04	pH units	N/A	
SW3	downstream	N/A	pH	November	N/A	N/A	7.73	pH units	N/A	
SW3	downstream	N/A	pH	December	N/A	N/A	8.00	pH units	N/A	
SW3	downstream	N/A	Conductivity	January	N/A	N/A	654.60	µS/cm @20oC	N/A	
SW3	downstream	N/A	Conductivity	February	N/A	N/A	882.67	µS/cm @20oC	N/A	
SW3	downstream	N/A	Conductivity	March	N/A	N/A	675.50	µS/cm @20oC	N/A	
SW3	downstream	N/A	Conductivity	April	N/A	N/A	626.25	µS/cm @20oC	N/A	
SW3	downstream	N/A	Conductivity	May	N/A	N/A	1128.40	µS/cm @20oC	N/A	
SW3	downstream	N/A	Conductivity	June	N/A	N/A	1157.50	µS/cm @20oC	N/A	
SW3	downstream	N/A	Conductivity	July	N/A	N/A	983.00	µS/cm @20oC	N/A	
SW3	downstream	N/A	Conductivity	August	N/A	N/A	787.00	µS/cm @20oC	N/A	
SW3	downstream	N/A	Conductivity	September	N/A	N/A	1165.00	µS/cm @20oC	N/A	
SW3	downstream	N/A	Conductivity	October	N/A	N/A	870.20	µS/cm @20oC	N/A	
SW3	downstream	N/A	Conductivity	November	N/A	N/A	669.25	µS/cm @20oC	N/A	
SW3	downstream	N/A	Conductivity	December	N/A	N/A	585.67	µS/cm @20oC	N/A	
SW4	downstream	N/A	COD	January	N/A	N/A	11.60	mg/L	N/A	
SW4	downstream	N/A	COD	February	N/A	N/A	11.00	mg/L	N/A	SW 4 is taken from a down pipe on the roof of the ETP services hut, as there was little rain there were no samples available for testing for one week in February.
SW4	downstream	N/A	COD	March	N/A	N/A	12.25	mg/L	N/A	
SW4	downstream	N/A	COD	April	N/A	N/A	19.75	mg/L	N/A	
SW4	downstream	N/A	COD	May	N/A	N/A	46.80	mg/L	N/A	

Consent of the right owner required for any other use.

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: P0807-01 Year 2018

SW4	downstream	N/A	COD	June	N/A	N/A	57.00	mg/L	N/A	SW 4 is taken from a down pipe on the roof of the ETP services hut, as there was little rain there were no samples available for testing for one week in June
SW4	downstream	N/A	COD	July	N/A	N/A	71.67	mg/L	N/A	SW 4 is taken from a down pipe on the roof of the ETP services hut, as there was little rain there were no samples available for testing for two weeks in July
SW4	downstream	N/A	COD	August	N/A	N/A	31.83	mg/L	N/A	
SW4	downstream	N/A	COD	September	N/A	N/A	24.25	mg/L	N/A	
SW4	downstream	N/A	COD	October	N/A	N/A	25.00	mg/L	N/A	
SW4	downstream	N/A	COD	November	N/A	N/A	16.00	mg/L	N/A	
SW4	downstream	N/A	COD	December	N/A	N/A	9.33	mg/L	N/A	
SW4	downstream	N/A	Temperature	January	N/A	N/A	7.24	degrees C	N/A	
SW4	downstream	N/A	Temperature	February	N/A	N/A	5.25	degrees C	N/A	
SW4	downstream	N/A	Temperature	March	N/A	N/A	6.70	degrees C	N/A	
SW4	downstream	N/A	Temperature	April	N/A	N/A	10.95	degrees C	N/A	
SW4	downstream	N/A	Temperature	May	N/A	N/A	14.50	degrees C	N/A	
SW4	downstream	N/A	Temperature	June	N/A	N/A	18.87	degrees C	N/A	
SW4	downstream	N/A	Temperature	July	N/A	N/A	19.23	degrees C	N/A	
SW4	downstream	N/A	Temperature	August	N/A	N/A	16.20	degrees C	N/A	
SW4	downstream	N/A	Temperature	September	N/A	N/A	12.90	degrees C	N/A	
SW4	downstream	N/A	Temperature	October	N/A	N/A	10.34	degrees C	N/A	
SW4	downstream	N/A	Temperature	November	N/A	N/A	8.58	degrees C	N/A	
SW4	downstream	N/A	Temperature	December	N/A	N/A	6.93	degrees C	N/A	
SW4	downstream	N/A	pH	January	N/A	N/A	6.78	pH units	N/A	
SW4	downstream	N/A	pH	February	N/A	N/A	6.75	pH units	N/A	
SW4	downstream	N/A	pH	March	N/A	N/A	6.85	pH units	N/A	
SW4	downstream	N/A	pH	April	N/A	N/A	6.95	pH units	N/A	
SW4	downstream	N/A	pH	May	N/A	N/A	7.10	pH units	N/A	
SW4	downstream	N/A	pH	June	N/A	N/A	7.23	pH units	N/A	
SW4	downstream	N/A	pH	July	N/A	N/A	6.97	pH units	N/A	
SW4	downstream	N/A	pH	August	N/A	N/A	7.23	pH units	N/A	
SW4	downstream	N/A	pH	September	N/A	N/A	7.20	pH units	N/A	
SW4	downstream	N/A	pH	October	N/A	N/A	6.96	pH units	N/A	
SW4	downstream	N/A	pH	November	N/A	N/A	7.15	pH units	N/A	
SW4	downstream	N/A	pH	December	N/A	N/A	7.17	pH units	N/A	
SW4	downstream	N/A	Conductivity	January	N/A	N/A	57.62	µS/cm @20oC	N/A	
SW4	downstream	N/A	Conductivity	February	N/A	N/A	396.90	µS/cm @20oC	N/A	
SW4	downstream	N/A	Conductivity	March	N/A	N/A	118.25	µS/cm @20oC	N/A	
SW4	downstream	N/A	Conductivity	April	N/A	N/A	43.73	µS/cm @20oC	N/A	
SW4	downstream	N/A	Conductivity	May	N/A	N/A	93.66	µS/cm @20oC	N/A	
SW4	downstream	N/A	Conductivity	June	N/A	N/A	109.87	µS/cm @20oC	N/A	
SW4	downstream	N/A	Conductivity	July	N/A	N/A	162.80	µS/cm @20oC	N/A	
SW4	downstream	N/A	Conductivity	August	N/A	N/A	124.20	µS/cm @20oC	N/A	
SW4	downstream	N/A	Conductivity	September	N/A	N/A	78.83	µS/cm @20oC	N/A	
SW4	downstream	N/A	Conductivity	October	N/A	N/A	104.40	µS/cm @20oC	N/A	
SW4	downstream	N/A	Conductivity	November	N/A	N/A	59.25	µS/cm @20oC	N/A	
SW4	downstream	N/A	Conductivity	December	N/A	N/A	35.67	µS/cm @20oC	N/A	

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*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

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

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

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

Yes	There was one exceedance in OFG in February 2018 which has been reported to the EPA: (OFG 1,420 kg, 21/02/2018).
Yes	

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	Monitoring date	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
SE1	Wastewater/Sewer	COD	composite	Daily	January	24 hour	8000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	756.10	kg/day	Yes	Digestion + Spectrophotometry	23rd Ed. 2017. American Public Health Association	23rd Ed. 2017. American Public Health Association	306790	The average of the daily monitoring results for COD is presented for each month. The annual mass load of COD was calculated as the sum of each of the daily monitoring results.
SE1	Wastewater/Sewer	COD	composite	Daily	February	24 hour	8000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	856.08	kg/day	Yes	Digestion + Spectrophotometry	23rd Ed. 2017. American Public Health Association	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	COD	composite	Daily	March	24 hour	8000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	612.06	kg/day	Yes	Digestion + Spectrophotometry	23rd Ed. 2017. American Public Health Association	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	COD	composite	Daily	April	24 hour	8000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	640.26	kg/day	Yes	Digestion + Spectrophotometry	23rd Ed. 2017. American Public Health Association	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	COD	composite	Daily	May	24 hour	8000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	847.54	kg/day	Yes	Digestion + Spectrophotometry	23rd Ed. 2017. American Public Health Association	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	COD	composite	Daily	June	24 hour	8000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	592.61	kg/day	Yes	Digestion + Spectrophotometry	23rd Ed. 2017. American Public Health Association	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	COD	composite	Daily	July	24 hour	8000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	895.63	kg/day	Yes	Digestion + Spectrophotometry	23rd Ed. 2017. American Public Health Association	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	COD	composite	Daily	August	24 hour	8000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1344.10	kg/day	Yes	Digestion + Spectrophotometry	23rd Ed. 2017. American Public Health Association	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	COD	composite	Daily	September	24 hour	8000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	995.14	kg/day	Yes	Digestion + Spectrophotometry	23rd Ed. 2017. American Public Health Association	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	COD	composite	Daily	October	24 hour	8000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1331.69	kg/day	Yes	Digestion + Spectrophotometry	23rd Ed. 2017. American Public Health Association	23rd Ed. 2017. American Public Health Association		

Consent: Supplying information required for any other use.

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)														Lic No:	P0807-01	Year	2018
SE1	Wastewater/Sewer	COD	composite	Daily	November	24 hour	8000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1249.82	kg/day	Yes	Digestion + Spectrophotometry	23rd Ed. 2017. American Public Health Association	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	COD	composite	Daily	December	24 hour	8000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	747.07	kg/day	Yes	Digestion + Spectrophotometry	23rd Ed. 2017. American Public Health Association	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	Fats, Oils and Greases	composite	Weekly	January	24 hour	600	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	231.64	kg/day	Yes	Gravimetric analysis	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association	71168	FOG annual mass load is based on the average daily load by the no. of operational days in 2018 (296 days)	
SE1	Wastewater/Sewer	Fats, Oils and Greases	composite	Weekly	February	24 hour	600	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	713.12	kg/day	No	Gravimetric analysis	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		There was an exceedance in OFG in February 2018 which has been reported to the EPA as an incident. (1,420 kg on 21/02/2018)	
SE1	Wastewater/Sewer	Fats, Oils and Greases	composite	Weekly	March	24 hour	600	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	236.66	kg/day	Yes	Gravimetric analysis	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	Fats, Oils and Greases	composite	Weekly	April	24 hour	600	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	182.81	kg/day	Yes	Gravimetric analysis	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	Fats, Oils and Greases	composite	Weekly	May	24 hour	600	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	225.26	kg/day	Yes	Gravimetric analysis	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	Fats, Oils and Greases	composite	Weekly	June	24 hour	600	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	169.72	kg/day	Yes	Gravimetric analysis	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	Fats, Oils and Greases	composite	Weekly	July	24 hour	600	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	158.65	kg/day	Yes	Gravimetric analysis	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	Fats, Oils and Greases	composite	Weekly	August	24 hour	600	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	298.36	kg/day	Yes	Gravimetric analysis	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	Fats, Oils and Greases	composite	Weekly	September	24 hour	600	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	245.16	kg/day	Yes	Gravimetric analysis	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	Fats, Oils and Greases	composite	Weekly	October	24 hour	600	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	180.67	kg/day	Yes	Gravimetric analysis	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	Fats, Oils and Greases	composite	Weekly	November	24 hour	600	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	230.29	kg/day	Yes	Gravimetric analysis	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	Fats, Oils and Greases	composite	Weekly	December	24 hour	600	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	65.84	kg/day	Yes	Gravimetric analysis	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	Suspended Solids	composite	Daily	January	24 hour	2000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	76.65	kg/day	Yes	Gravimetric analysis	I.S EN	872:2005	44932	The average of the daily monitoring results for Suspended Solids are presented for each month. Suspended Solids annual mass load is calculated as sum of daily monitoring results.	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)														Lic No:	P0807-01	Year	2018
SE1	Wastewater/Sewer	Suspended Solids	composite	Daily	February	24 hour	2000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	162.96	kg/day	Yes	Gravimetric analysis	I.S EN	872:2005			
SE1	Wastewater/Sewer	Suspended Solids	composite	Daily	March	24 hour	2000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	101.90	kg/day	Yes	Gravimetric analysis	I.S EN	872:2005			
SE1	Wastewater/Sewer	Suspended Solids	composite	Daily	April	24 hour	2000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	87.48	kg/day	Yes	Gravimetric analysis	I.S EN	872:2005			
SE1	Wastewater/Sewer	Suspended Solids	composite	Daily	May	24 hour	2000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	144.69	kg/day	Yes	Gravimetric analysis	I.S EN	872:2005			
SE1	Wastewater/Sewer	Suspended Solids	composite	Daily	June	24 hour	2000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	47.39	kg/day	Yes	Gravimetric analysis	I.S EN	872:2005			
SE1	Wastewater/Sewer	Suspended Solids	composite	Daily	July	24 hour	2000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	87.31	kg/day	Yes	Gravimetric analysis	I.S EN	872:2005			
SE1	Wastewater/Sewer	Suspended Solids	composite	Daily	August	24 hour	2000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	127.46	kg/day	Yes	Gravimetric analysis	I.S EN	872:2005			
SE1	Wastewater/Sewer	Suspended Solids	composite	Daily	September	24 hour	2000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	130.68	kg/day	Yes	Gravimetric analysis	I.S EN	872:2005			
SE1	Wastewater/Sewer	Suspended Solids	composite	Daily	October	24 hour	2000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	246.31	kg/day	Yes	Gravimetric analysis	I.S EN	872:2005			
SE1	Wastewater/Sewer	Suspended Solids	composite	Daily	November	24 hour	2000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	243.11	kg/day	Yes	Gravimetric analysis	I.S EN	872:2005			
SE1	Wastewater/Sewer	Suspended Solids	composite	Daily	December	24 hour	2000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	129.72	kg/day	Yes	Gravimetric analysis	I.S EN	872:2005			
SE1	Wastewater/Sewer	Sulphates	composite	Weekly	January	24 hour	360	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	70.33	kg/day	Yes	Seal AQ2	HMSO	1981	19629	Sulphates annual mass load is based on the average daily load by the no. of operational days in 2018 (296 days)	
SE1	Wastewater/Sewer	Sulphates	composite	Weekly	February	24 hour	360	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	80.38	kg/day	Yes	Seal AQ2	HMSO	1981			
SE1	Wastewater/Sewer	Sulphates	composite	Weekly	March	24 hour	360	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	83.81	kg/day	Yes	Seal AQ2	HMSO	1981			
SE1	Wastewater/Sewer	Sulphates	composite	Weekly	April	24 hour	360	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	101.51	kg/day	Yes	Seal AQ2	HMSO	1981			
SE1	Wastewater/Sewer	Sulphates	composite	Weekly	May	24 hour	360	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	90.55	kg/day	Yes	Seal AQ2	HMSO	1981			

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)														Lic No:	P0807-01	Year	2018
SE1	Wastewater/Sewer	Sulphates	composite	Weekly	June	24 hour	360	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	35.19	kg/day	Yes	Seal AQ2	HMSO	1981			
SE1	Wastewater/Sewer	Sulphates	composite	Weekly	July	24 hour	360	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	38.71	kg/day	Yes	Seal AQ2	HMSO	1981			
SE1	Wastewater/Sewer	Sulphates	composite	Weekly	August	24 hour	360	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	60.49	kg/day	Yes	Seal AQ2	HMSO	1981			
SE1	Wastewater/Sewer	Sulphates	composite	Weekly	September	24 hour	360	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	39.74	kg/day	Yes	Seal AQ2	HMSO	1981			
SE1	Wastewater/Sewer	Sulphates	composite	Weekly	October	24 hour	360	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	51.32	kg/day	Yes	Seal AQ2	HMSO	1981			
SE1	Wastewater/Sewer	Sulphates	composite	Weekly	November	24 hour	360	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	65.58	kg/day	Yes	Seal AQ2	HMSO	1981			
SE1	Wastewater/Sewer	Sulphates	composite	Weekly	December	24 hour	360	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	78.15	kg/day	Yes	Seal AQ2	HMSO	1981			
SE1	Wastewater/Sewer	BOD	composite	Weekly	January	24 hour	4000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	789.55	kg/day	Yes	Dissolved Oxygen Meter (Electrode)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association	321373	BOD annual mass load is based on the average daily load by the no. of operational days in 2018 (296 days)	
SE1	Wastewater/Sewer	BOD	composite	Weekly	February	24 hour	4000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1060.25	kg/day	Yes	Dissolved Oxygen Meter (Electrode)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	BOD	composite	Weekly	March	24 hour	4000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1004.62	kg/day	Yes	Dissolved Oxygen Meter (Electrode)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	BOD	composite	Weekly	April	24 hour	4000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1167.96	kg/day	Yes	Dissolved Oxygen Meter (Electrode)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	BOD	composite	Weekly	May	24 hour	4000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1191.75	kg/day	Yes	Dissolved Oxygen Meter (Electrode)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	BOD	composite	Weekly	June	24 hour	4000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1061.47	kg/day	Yes	Dissolved Oxygen Meter (Electrode)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	BOD	composite	Weekly	July	24 hour	4000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	564.33	kg/day	Yes	Dissolved Oxygen Meter (Electrode)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	BOD	composite	Weekly	August	24 hour	4000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1579.86	kg/day	Yes	Dissolved Oxygen Meter (Electrode)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			
SE1	Wastewater/Sewer	BOD	composite	Weekly	September	24 hour	4000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1073.21	kg/day	Yes	Dissolved Oxygen Meter (Electrode)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association			

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SE1	Wastewater/Sewer	BOD	composite	Weekly	October	24 hour	4000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1270.93	kg/day	Yes	Dissolved Oxygen Meter (Electrode)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	BOD	composite	Weekly	November	24 hour	4000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1327.93	kg/day	Yes	Dissolved Oxygen Meter (Electrode)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	BOD	composite	Weekly	December	24 hour	4000	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	937.80	kg/day	Yes	Dissolved Oxygen Meter (Electrode)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	Phosphates	composite	Weekly	January	24 hour	100	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.16	kg/day	Yes	Spectrophotometry (Colorimetry)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association	212.4	Phosphates annual mass load is based on the average daily load by the no. of operational days in 2018 (296 days)
SE1	Wastewater/Sewer	Phosphates	composite	Weekly	February	24 hour	100	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.31	kg/day	Yes	Spectrophotometry (Colorimetry)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	Phosphates	composite	Weekly	March	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.13	kg/day	Yes	Spectrophotometry (Colorimetry)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	Phosphates	composite	Weekly	April	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.18	kg/day	Yes	Spectrophotometry (Colorimetry)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	Phosphates	composite	Weekly	May	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.24	kg/day	Yes	Spectrophotometry (Colorimetry)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	Phosphates	composite	Weekly	June	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.08	kg/day	Yes	Spectrophotometry (Colorimetry)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	Phosphates	composite	Weekly	July	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.09	kg/day	Yes	Spectrophotometry (Colorimetry)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	Phosphates	composite	Weekly	August	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.15	kg/day	Yes	Spectrophotometry (Colorimetry)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	Phosphates	composite	Weekly	September	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.12	kg/day	Yes	Spectrophotometry (Colorimetry)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	Phosphates	composite	Weekly	October	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	2.42	kg/day	Yes	Spectrophotometry (Colorimetry)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	Phosphates	composite	Weekly	November	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	2.81	kg/day	Yes	Spectrophotometry (Colorimetry)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	Phosphates	composite	Weekly	December	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	2.01	kg/day	Yes	Spectrophotometry (Colorimetry)	Standard Methods for the examination of water and wastewater	23rd Ed. 2017. American Public Health Association		
SE1	Wastewater/Sewer	Detergents (as MBAS)	composite	Weekly	January	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.05	kg/day	Yes	Standard Method	Other (Colorimetric)		140	Detergents annual mass load is based on the average daily load by the no. of operational days in 2018 (296 days)

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SE1	Wastewater/Sewer	Detergents (as MBAS)	composite	Weekly	February	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.05	kg/day	Yes	Standard Method	Other (Calorimetric)				
SE1	Wastewater/Sewer	Detergents (as MBAS)	composite	Weekly	March	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.06	kg/day	Yes	Standard Method	Other (Calorimetric)				
SE1	Wastewater/Sewer	Detergents (as MBAS)	composite	Weekly	April	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.10	kg/day	Yes	Standard Method	Other (Calorimetric)				
SE1	Wastewater/Sewer	Detergents (as MBAS)	composite	Weekly	May	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.07	kg/day	Yes	Standard Method	Other (Calorimetric)				
SE1	Wastewater/Sewer	Detergents (as MBAS)	composite	Weekly	June	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.06	kg/day	Yes	Standard Method	Other (Calorimetric)				
SE1	Wastewater/Sewer	Detergents (as MBAS)	composite	Weekly	July	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.03	kg/day	Yes	Standard Method	Other (Calorimetric)				
SE1	Wastewater/Sewer	Detergents (as MBAS)	composite	Weekly	August	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.77	kg/day	Yes	Standard Method	Other (Calorimetric)				
SE1	Wastewater/Sewer	Detergents (as MBAS)	composite	Weekly	September	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.04	kg/day	Yes	Standard Method	Other (Calorimetric)				
SE1	Wastewater/Sewer	Detergents (as MBAS)	composite	Weekly	October	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	3.08	kg/day	Yes	Standard Method	Other (Calorimetric)				
SE1	Wastewater/Sewer	Detergents (as MBAS)	composite	Weekly	November	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	1.09	kg/day	Yes	Standard Method	Other (Calorimetric)				
SE1	Wastewater/Sewer	Detergents (as MBAS)	composite	Weekly	December	24 hour	60	All results < 1.2 times ELV, plus 8 from ten results must be < ELV	0.28	kg/day	Yes	Standard Method	Other (Calorimetric)				
SE1	Wastewater/Sewer	Total nitrogen	composite	Monthly	January	24 hour	N/A	N/A	4.47	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	11905-1:1998, NSAI	1379	Total Nitrogen annual mass load is based on the average daily load by the no. of operational days in 2018 (296 days)	
SE1	Wastewater/Sewer	Total nitrogen	composite	Monthly	February	24 hour	N/A	N/A	3.23	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	11905-1:1998, NSAI			
SE1	Wastewater/Sewer	Total nitrogen	composite	Monthly	March	24 hour	N/A	N/A	3.61	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	11905-1:1998, NSAI			
SE1	Wastewater/Sewer	Total nitrogen	composite	Monthly	April	24 hour	N/A	N/A	5.61	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	11905-1:1998, NSAI			
SE1	Wastewater/Sewer	Total nitrogen	composite	Monthly	May	24 hour	N/A	N/A	6.02	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	11905-1:1998, NSAI			

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AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)							Lic No:	P0807-01	Year	2018						
SE1	Wastewater/Sewer	Total nitrogen	composite	Monthly	June	24 hour	N/A	N/A	0.92	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	11905-1:1998, NSAI		
SE1	Wastewater/Sewer	Total nitrogen	composite	Monthly	July	24 hour	N/A	N/A	0.22	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	11905-1:1998, NSAI		
SE1	Wastewater/Sewer	Total nitrogen	composite	Monthly	August	24 hour	N/A	N/A	2.72	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	11905-1:1998, NSAI		
SE1	Wastewater/Sewer	Total nitrogen	composite	Monthly	September	24 hour	N/A	N/A	6.30	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	11905-1:1998, NSAI		
SE1	Wastewater/Sewer	Total nitrogen	composite	Monthly	October	24 hour	N/A	N/A	5.00	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	11905-1:1998, NSAI		
SE1	Wastewater/Sewer	Total nitrogen	composite	Monthly	November	24 hour	N/A	N/A	7.48	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	11905-1:1998, NSAI		
SE1	Wastewater/Sewer	Total nitrogen	composite	Monthly	December	24 hour	N/A	N/A	13.6776	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	11905-1:1998, NSAI		
SE1	Wastewater/Sewer	Total phosphorus	composite	Monthly	January	24 hour	N/A	N/A	0.92	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	6878:2004	273	Total Phosphorus annual mass load is based on the average daily load by the no. of operational days in 2018 (296 days)
SE1	Wastewater/Sewer	Total phosphorus	composite	Monthly	February	24 hour	N/A	N/A	0.89	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	6878:2004		
SE1	Wastewater/Sewer	Total phosphorus	composite	Monthly	March	24 hour	N/A	N/A	0.66	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	6878:2004		
SE1	Wastewater/Sewer	Total phosphorus	composite	Monthly	April	24 hour	N/A	N/A	0.92	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	6878:2004		
SE1	Wastewater/Sewer	Total phosphorus	composite	Monthly	May	24 hour	N/A	N/A	1.18	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	6878:2004		
SE1	Wastewater/Sewer	Total phosphorus	composite	Monthly	June	24 hour	N/A	N/A	0.27	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	6878:2004		
SE1	Wastewater/Sewer	Total phosphorus	composite	Monthly	July	24 hour	N/A	N/A	0.29	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	6878:2004		
SE1	Wastewater/Sewer	Total phosphorus	composite	Monthly	August	24 hour	N/A	N/A	1.54	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	6878:2004		
SE1	Wastewater/Sewer	Total phosphorus	composite	Monthly	September	24 hour	N/A	N/A	1.31	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	6878:2004		

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AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: P0807-01 Year 2018

SE1	Wastewater/Sewer	Total phosphorus	composite	Monthly	October	24 hour	N/A	N/A	0.97	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	6878:2004		
SE1	Wastewater/Sewer	Total phosphorus	composite	Monthly	November	24 hour	N/A	N/A	0.89	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	6878:2004		
SE1	Wastewater/Sewer	Total phosphorus	composite	Monthly	December	24 hour	N/A	N/A	1.20	kg/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	6878:2004		
SE1	Wastewater/Sewer	Volumetric Flow	composite	Continuous	Continuous	24 hour	540	No flow value shall exceed the specific limit.	152.17	m3/day	N/A	Digestion + Spectrophotometry	I.S EN ISO	6878:2004		

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

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

7 If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant

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

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

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

Table W4: Summary of average emissions -continuous monitoring

Additional Information	
Yes	
No	
Yes	Service contract in place for TOC and flow meters.
No	

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision	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 exceedances in reporting year	Comments
SE1	Wastewater/Sewer	pH	6 to 10	24 hour	No pH value shall deviate from the specified range	pH units	8.1	n/a	0	0	
SE1	Wastewater/Sewer	Temperature	42	24 hour	No temperature value shall deviate from the specified range	degrees C	23.3	0	0	0	
SE1	Wastewater/Sewer	volumetric flow	540	24 hour	No flow value shall exceed the specific limit.	m3/day	152.17	-10%	0	0	

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
						SELECT

*Measures taken or proposed to reduce or limit bypass frequency

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Bund testing

dropdown menu click to see options

Additional information

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

- 1 Please provide integrity testing frequency period
- 2 Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore")
- 3 type units and mobile bunds
- 4 How many bunds are on site?
- 5 How many of these bunds have been tested within the required test schedule?
- 6 How many mobile bunds are on site?
- 7 Are the mobile bunds included in the bund test schedule?
- 8 How many of these mobile bunds have been tested within the required test schedule?
- 9 How many sumps on site are included in the integrity test schedule?
- 10 How many of these sumps are integrity tested within the test schedule?
- Please list any sump integrity failures in table B1**
- 11 Do all sumps and chambers have high level liquid alarms?
- 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?

Yes	
3 years	
Yes	
46	
46	
18	Bunds 4,5,11,12,13,14,15,16,18,19,21,22,29,33,34,43,44 and 45 are possible to move but remain in a dedicated place usually.
Yes	
18	
4	Bund 6, 23, the Effluent Treatment Plant, and the Firewater retention tank have sumps.
4	
Yes	
Yes	Included in site's planned preventative maintenance check sheet
Yes	

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

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

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
Bund 42	general purpose concrete/masonry	N/A	Room currently not in use - usually holds ethanol tanks of varying size.	246m3	61.6m3	Visual Inspection	N/A	17/07/2018	Yes	Fail	<ul style="list-style-type: none"> • Joint in concrete adjacent to tanks required to be re sealed • The integrity of the tanks should be investigated. 	Joint in concrete adjacent to tanks will be re-sealed and the bund will be reassessed.	To be confirmed following repair works.	N/A

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

Commentary

15 Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance?

[Bundling and storage guidelines](#)

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

Yes	
Yes	
Yes	

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

- 1 Please provide integrity testing frequency period
- *please note integrity testing means water tightness testing of all underground pipelines (as required under your licence)

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

Yes	The survey of underground lines was complete in 2018 including Effluent Lines, internal lines in the Process Plant, Foul water Lines and Stormwater Lines. There were some failures which are currently being repaired - these are listed in table B2 below.
3 years	

Bund/Pipeline testing template				Lic No:	P0807-01	Year	2018				
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)
E5-E5A	Effluent	pvc	Yes	Double walled piping	Jet and CCTV	Yes	Fail	Defective liner	Planned to cut the defect at 6.50 meters and install No Dig patch Repair to Seal the defective area.	Following repair works	N/A
E5-E6	Effluent	pvc	Yes	Double walled piping	Jet and CCTV	Yes	Fail	Defective liner	Liner approx. 40 meters long which is defective be robotically cut and removed and replaced with new Liner which will be properly inflated sealing all defects	Following repair works	N/A
E4-E5	Effluent	pvc	Yes	Double walled piping	Jet and CCTV	Yes	Fail	Defective liner	Liner approx. 19 meters long which is defective be robotically cut and removed and replaced with new Liner which will be properly inflated sealing all defects.	Following repair works	N/A
E5-5A	Effluent	pvc	Yes	Double walled piping	Jet and CCTV	Yes	Fail	Defective liner	Cut the defect at 6.50 meters and install 2 x No Dig patch Repair to seal the defective area.	Following repair works	N/A
E15-E14	Effluent	other(vitrified clay pipe)	Yes	Double walled piping	Jet and CCTV	Yes	Fail	Defective liner	Liner approx. 16 meters long which is defective be robotically cut and removed and replaced with new Liner which will be properly inflated sealing all defects.	Following repair works	N/A
E15-E16	Effluent	other(vitrified clay pipe)	Yes	Double walled piping	Jet and CCTV	Yes	Fail	Defective liner	Liner approx. 13 meters long which is defective be robotically cut and removed and replaced with new Liner which will be properly inflated sealing all defects.	Following repair works	N/A
E20-E19	Effluent	other(vitrified clay pipe)	Yes	Double walled piping	Jet and CCTV	Yes	Fail	Defective liner	Liner approx. 19 meters long which is defective be robotically cut and removed and replaced with new Liner which will be properly inflated sealing all defects.	Following repair works	N/A

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	no		
4 Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. Groundwater monitoring template	N/A		
5 Is the contamination related to operations at the facility (either current and/or historic)	N/A		
6 Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	N/A		
7 Please specify the proposed time frame for the remediation strategy	N/A		
8 Is there a licence condition to carry out/update ELRA for the site?	yes		
9 Has any type of risk assessment been carried out for the site?	ELRA		
10 Has a Conceptual Site Model been developed for the site?	N/A		
11 Have potential receptors been identified on and off site?	N/A		
12 Is there evidence that contamination is migrating offsite?	N/A		

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:	P0807-01	Year	2018					
<p>*please note exceedences 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.</p>		Groundwater monitoring template								
<p>More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)</p>		Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).								
<p>**Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), if the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)</p>		<table border="0"> <tr> <td>Surface water EQS</td> <td>Groundwater regulations</td> <td>Drinking water (private supply) standards</td> <td>Drinking water (public supply) standards</td> <td>Interim Guideline Values (IGV)</td> </tr> </table>				Surface water EQS	Groundwater regulations	Drinking water (private supply) standards	Drinking water (public supply) standards	Interim Guideline Values (IGV)
Surface water EQS	Groundwater regulations	Drinking water (private supply) standards	Drinking water (public supply) standards	Interim Guideline Values (IGV)						

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Groundwater/Soil monitoring template

Lic No:

P0807-01

Year

2018

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:	P0807-01	Year	2018
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[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

			Commentary
1	ELRA initial agreement status	Submitted and not agreed by EPA;	PM Group completed the ELRA (Report No: IE0310295-22-RP-0003, Issue A) for the site in 2015 in accordance with the conditions of Licence P0807-01. This has not been agreed with the Agency.
2	ELRA review status	Review required and completed	The 2015 ELRA report has been revised by PM Group in April 2019 (Report No. IE0310295-22-RP-0003, Issue B) and will be submitted to the EPA through EDEN.
3	Amount of Financial Provision cover required as determined by the latest ELRA	€1,030,254	To be agreed with the Agency.
4	Financial Provision for ELRA status	Required but not submitted	Pending agreement from the Agency on the 2019 ELRA cost.
5	Financial Provision for ELRA - amount of cover	€1,030,254	To be agreed with the Agency.
6	Financial Provision for ELRA - type	Not yet determined	Pending Agreement from the Agency on the 2019 ELRA. DBGS will liaise with the EPA on the appropriate financial provision instrument to cover the cost of this environmental liability.
7	Financial provision for ELRA expiry date	Not yet determined	
8	Closure plan initial agreement status	Closure plan submitted and not agreed by EPA	The Closure plan (PM Group Report No. IE0310295-22-RP-0004) for the site was revised in 2017 and has been submitted to the Agency for Agreement.
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Required but not submitted	Pending agreement from the Agency on the 2017 Closure Plan cost.
11	Financial Provision for Closure - amount of cover	€1,433,064	To be agreed with the Agency.
12	Financial Provision for Closure - type	Required but not submitted	Pending agreement from the Agency on the 2017 Closure Plan cost.
13	Financial provision for Closure expiry date	Not yet determined	

Noise monitoring summary report	Lic No: P0807-01	Year	2018
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1 Was noise monitoring a licence requirement for the AER period?

If yes please fill in table N1 noise summary below

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

[Noise Guidance note NG4](#)

A request by DBGS to discontinue noise monitoring was approved by the EPA via a licensee return LR004943.

3 Does your site have a noise reduction plan

4 When was the noise reduction plan last updated?

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

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise*(Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
								SELECT	SELECT		SELECT

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

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

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

Any additional comments? (less than 200 words)

Environmental Management Programme/Continuous Improvement Programme template		Lic No:	P0807-01	Year	2018
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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	DBGS implements an EMS which is accredited to the ISO14001:2015 standard.
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
Additional improvements	Upgrade BMS system post 2018 review - Purchase / Lease	In progress	N/A (new objective)	EHS Manager	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	To remove the post detergent steps on all cleaning in place stations in the process plant - water use reduction initiative	In progress	N/A (new objective)	Process Manager	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Repair / Reline defective drainage	In progress	N/A (new objective)	Capex Project Engineer	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Replacement of 2 No. Water Meters and link to BMS and Install 1 no. Water Meter and link to BMS	In progress	N/A (new objective)	Capex Project Engineer	Improved Environmental Management Practices
Waste reduction/Raw material usage efficiency	Air purge trials on bottling lines # 1, 5 & 7 - water use reduction initiative	Target date, 28.09.2018 Complete	MTHW Boiler temperature decreased from 120°C to 100°C	Utilities Technician	Improved Environmental Management Practices

Environmental Management Programme/Continuous Improvement Programme template				Lic No:	P0807-01	Year	2018
Waste reduction/Raw material usage efficiency	Site Lighting Survey	Survey Completed May 2018	Survey of Site Lighting complete to identify opportunities for improvements in efficiency mainly in the non-operational areas.	Facilities Manager	Improved Environmental Management Practices		
Waste reduction/Raw material usage efficiency	Fridge Plant upgrade(Variable Speed Drives (VSD))	Complete	Upgrade VSD / energy efficient design	CAPEX Engineering Manager	Improved Environmental Management Practices		
Waste reduction/Raw material usage efficiency	Focused Improvement (ITF A3): Utilities and Energy Saving Project in process, e.g., reduced CIPs - potential GHG, Water & Chemical savings	Due end of April 2018 - Complete	Measurement & verification was based on measured water reduction and expected associated energy consumption as a result of heating and pumping this water. It is not possible to measure consumption at point of use for this project.	EHS Manager	Improved Environmental Management Practices		
Additional improvements	Review of BMS system	Due end of 2018 - complete	A desktop review is to be undertaken of the BMS system.	EHS Manager	Increased compliance with licence conditions		

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Additional information

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

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

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

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

June 2018	The site's Energy Management System (EnMS) is certified to ISO 50001:2011, the most recent surveillance energy audit was carried out in June 2018 which concluded that the EnMS continues to meet the needs of the organisation and conforms to the requirements of ISO 50001:2011. Some non-conformities were identified and have been addressed.
Yes	SEAI
N/A	Natural Gas only used in boilers

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)	11052	11364.37	+10%	3% increase in energy consumption vs. 10% increase in production in 2018.
Total Energy Generated (MWHrs)	N/A	N/A		
Total Renewable Energy Generated (MWHrs)	N/A	N/A		
Electricity Consumption (MWHrs)	4524.89	4509.46		
Fossil Fuels Consumption:				
Heavy Fuel Oil (Diesel) (m3)	1.7	1.55		
Light Fuel Oil (Liquid Petroleum Gas) (m3)	28.54	24.13		
Natural gas (m3)	572159	408910		
Coal/Solid fuel (metric tonnes)	N/A	N/A		
Peat (metric tonnes)	N/A	N/A		
Renewable Biomass	N/A	N/A		
Renewable energy generated on site	N/A	N/A		

* where consumption of energy can be N/A

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

Resource Usage/Energy efficiency summary Lic No: P0807-01 Year 2018

Table R2 Water usage on site				Water Emissions		Water Consumption	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs. overall site production*	Volume Discharged back to environment(m ³ /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr.	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	66981.69	70842			55543	15299	0
Recycled water							
Total	66981.69	70842	+10% increase in site production	3% increase in energy consumption vs. 10% increase in production in 2018.	55543	15299	0

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

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

Table R3 Waste Stream Summary					
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	0.00				
Non-Hazardous (Tonnes)	466.55	0.00	148.05	318.50	0.00

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Resource Usage/Energy efficiency summary			Lic No: P0807-01		Year		2018	
Table R4: Energy Audit finding recommendations								
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
26/06/2018	The requirements of the standard in relation to 'Legal and other Requirements & Compliance' are not being fully met.	Review compliance to this standard and put procedures in place to ensure compliance.	accredited programme	N/A	2018	EHS Manager	28.09.2018	Minor N/C TT2385: The legal register has subsequently been reviewed and found to be compliant.
25/06/2018	The requirements of the Standard in relation to Non conformances and Capas are not being fully met.	Review compliance to this standard and put procedures in place to ensure compliance.	accredited programme	N/A	2018	EHS Manager	30.09.2018	Minor N/C TT2386: The non-conformance system has been reviewed and a new root cause analysis document has been developed to cover all aspects of corrective and preventative actions.
25/06/2018	The requirements of the Standard in relation to Management Review are not being fully met.	Review compliance to this standard and put procedures in place to ensure compliance. Output records could be kept for all meetings even if no significant	accredited programme	N/A	2018	EHS Manager	30.11.2018	Minor N/C TT2387: The agenda of the Management review has been amended to include all aspects of clause 4.7.
25/06/2018	Some records were not produced/available during the assessment as per the requirements of the standard.	Review compliance to this standard and put procedures in place to ensure compliance.	accredited programme	N/A	2018	EHS Manager	26.10.2018	Minor N/C TT2388: The documents have since been located and are in place.
25/06/2018	Action plans do not appear to be implemented / audited for effectiveness.	The management and ongoing monitoring of action plans needs to be reviewed to ensure projects are implemented to achieve the required savings each year.	accredited programme	N/A	2018	EHS Manager	30.09.2018	Minor N/C TT2389: The actions and targets log has been amended for F19 to ensure it only includes committed projects and also to include an effectiveness review of those projects.

Resource Usage/Energy efficiency summary Lic No: P0807-01 Year 2018

Table R4: Energy Audit finding recommendations (Continued)								
Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
25/06/2018	The requirements of the Standard in relation to monitoring of HVAC and lighting systems on site.	HVAC/Lighting and their relevant variables should be monitored, measured and analysed.	accredited programme	N/A	2018	EHS Manager	30.11.18	Minor N/C TT2390: Process implemented during the Energy Review.

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

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

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Complaints and Incidents summary template Lic No: P0807-01 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		No

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

Incidents

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

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

Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of reoccurrence
21.02.2018	Breach of ELV	Licensed discharge point (SE 1)	1. Minor	Sewer	Other (add details)	High reading of OFG concentration (6730mg/l) in the weekly monitoring sample led to an exceeded ELV for OFG in the effluent discharge (1420kg)	Normal activities	EPA	New	Root cause analysis investigation undertaken and incident reported to EPA. No cause found, all other parameters found to be normal, result is considered to be spurious.	On-going continuous monitoring of the process, on-going review of TOC results at the daily operations review meeting, on-going review of the Eurofins reports and all results to ensure they are within limits.	Complete	11/05/2018	Low

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Complaints and Incidents summary template										Lic No:	P0807-01	Year	2018	
04.04.2018	Breach of ELV	Licensed discharge point (SE 1)	1. Minor	Sewer	Other (add details)	False high reading of Anionic Detergents concentration (583mg/l) was given in the weekly monitoring report from Eurofins.	Normal activities	EPA	Recurring	Retest of sample requested from Eurofins. Eurofins confirmed that the incorrect value was entered in the report and that the sample result for Anionic Detergents (0.22mg/l) was within Licence ELVs.	Eurofins have been requested to put measures in place to ensure this does not occur and to provide the details of these measures to DBGS.	Complete	11/05/2018	Low
Total number of incidents current year	2													
Total number of incidents previous year	2													
% reduction/increase	0													

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WASTE SUMMARY	Lic No:	P0807-01	Year	2018
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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

Additional Information

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

If yes please enter details in table 1 below

2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information

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

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

Licensed annual tonnage limit for your site (total tonnes/annum)	EWC code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWC code	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 -
	European Waste Catalogue EWC codes		European Waste Catalogue EWC codes								

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

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

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

6 Does your facility have relevant nuisance controls in place?

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

8 Do you maintain a sludge register on site?

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and tonnage-landfill only

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

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													

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WASTE SUMMARY Lic No: P0807-01 Year 2018

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 S53(A)(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 m2 ha. a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					

*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
SELECT

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

Volume of leachate in reporting year(m3)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments

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

Table 7 Landfill Gas-Landfill only

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
			SELECT	

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Waste Summary Continued

European Waste Code	Description of Waste	Classification	Quantity of waste (Tonnes/year)	Waste Haulier and Permit Number	Next Destination		Final Destination	
					Facility Name, Address and Licence/Permit number	Recovery Code for Waste Treatment Operation	Facility Name, Address and Licence/Permit number	Recovery Code for Waste Treatment Operation
20 01 25	Edible oil and fat	Non-Hazardous	1.090	Frylite Dublin Ltd., Permit: NWCPO-DC-10-1297	Frylite Dublin Ltd. Permit/Licence: WFP-FG-16-0004-01 Address: ABP Meat Processing Plant, St. Anne's, Cloghran, Ballymun, Co. Dublin	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Frylite Ltd Permit/Licence: WML 26/26, Licence Ref: LN/11/63 Orchard Road Industrial Estate Strabane Co. Tyrone N. Ireland BT82 9FR	R12 - Exchange of waste for submission to any of the operations numbered R 1 to R 11
02 07 04	materials unsuitable for consumption or processing	Non-Hazardous	29.800	Enva Permit: NWCPO-08-01116-02	Enva Permit/Licence: W0196-01 Address: John F Kennedy Rd, Naas Rd, Bluebell, Dublin	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	College Proteins Permit/Licence: P0037-03 Address: College Road, Nobber, Co. Meath	R03 - Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)
20 03 07	Bulky MMW	Non-Hazardous	24.700	Thorntons Recycling Permit: NWCPO-09-01190-05	Thorntons Recycling Centre (Ballyfermot) Permit/Licence: W0044-02 Address: Killeen Road, Ballyfermot, Dublin 10, Dublin.	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Thorntons Recycling Centre (Ballyfermot) Permit/Licence: W0044-02 Address: Killeen Road, Ballyfermot, Dublin 10, Dublin.	R01 - Use principally as a fuel or other means to generate energy
20 01 39	Plastics	Non-Hazardous	29.475	Thorntons Recycling Permit: NWCPO-09-01190-05	Thorntons Recycling Permit/Licence: WFP-DC-10-0021-02 Address: Unit 51 Henry Road, Park West Business Park, Dublin 12	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Thorntons Recycling Permit/Licence: WFP-DC-10-0021-02 Address: Unit 51 Henry Road, Park West Business Park, Dublin 12	R03 - Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)
20 01 39	Plastics	Non-Hazardous	0.320	Thorntons Recycling Permit: NWCPO-09-01190-02	Thorntons Recycling Permit/Licence: WFP-DC-10-0021-02 Address: Unit 51 Henry Road, Park West Business Park, Dublin 12	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Thorntons Recycling Permit/Licence: WFP-DC-10-0021-02 Address: Unit 51 Henry Road, Park West Business Park, Dublin 12	R01 - Use principally as a fuel or other means to generate energy
20 01 08	Biodegradable kitchen and canteen waste	Non-Hazardous	19.361	Thorntons Recycling Permit: NWCPO-09-01190-05	Thorntons Recycling Centre (Ballyfermot) Permit/Licence: W0044-02 Address: Killeen Road, Ballyfermot, Dublin 10, Dublin.	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Thorntons Recycling Centre (Ballyfermot) Permit/Licence: W0044-02 Address: Killeen Road, Ballyfermot, Dublin 10, Dublin.	R03 - Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)
20 01 01	Paper and Cardboard	Non-Hazardous	0.600	Thorntons Recycling Permit: NWCPO-09-01190-05	Thorntons Recycling Permit/Licence: WFP-DC-11-0023-02 Address: Unit 6 S3B Henry Road, Park West Business Park, Dublin 12	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Thorntons Recycling Permit/Licence: WFP-DC-11-0023-02 Address: Unit 6 S3B Henry Road, Park West Business Park, Dublin 12	R03 - Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)
19 12 02	Ferrous Metal	Non-Hazardous	4.370	Thorntons Recycling Permit: NWCPO-09-01190-05	Thorntons Recycling Centre (Ballyfermot) Permit/Licence: W0044-02 Address: Killeen Road, Ballyfermot, Dublin 10, Dublin.	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Thorntons Recycling Centre (Ballyfermot) Permit/Licence: W0044-02 Address: Killeen Road, Ballyfermot, Dublin 10, Dublin.	R04 - Recycling/reclamation of metals and metal compounds

European Waste Code	Description of Waste	Classification	Quantity of waste (Tonnes/year)	Waste Haulier and Permit Number	Next Destination		Final Destination	
					Facility Name, Address and Licence/Permit number	Recovery Code for Waste Treatment Operation	Facility Name, Address and Licence/Permit number	Recovery Code for Waste Treatment Operation
15 01 07	Glass Packaging	Non-Hazardous	188.860	Thorntons Recycling Permit: NWCPO-09-01190-05	Thorntons Recycling Centre (Ballyfermot) Permit/Licence: W0044-02 Address: Killeen Road, Ballyfermot, Dublin 10, Dublin.	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Thorntons Recycling Centre (Ballyfermot) Permit/Licence: W0044-02 Address: Killeen Road, Ballyfermot, Dublin 10, Dublin.	R03 - Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)
15 01 03	Wooden Packaging	Non-Hazardous	1.460	Thorntons Recycling Permit: NWCPO-09-01190-05	Thorntons Recycling Centre (Ballyfermot) Permit/Licence: W0044-02 Address: Killeen Road, Ballyfermot, Dublin 10, Dublin.	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Thorntons Recycling Centre (Ballyfermot) Permit/Licence: W0044-02 Address: Killeen Road, Ballyfermot, Dublin 10, Dublin.	R03 - Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)
15 01 02	Plastics	Non-Hazardous	2.560	Thorntons Recycling Permit: NWCPO-09-01190-05	Thorntons Recycling Permit/Licence: WFP-DC-10-0021-02 Address: Unit 51 Henry Road, Park West Business Park, Dublin 12	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Thorntons Recycling Permit/Licence: WFP-DC-10-0021-02 Address: Unit 51 Henry Road, Park West Business Park, Dublin 12	R03 - Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)
15 01 01	Paper and Cardboard Packaging	Non-Hazardous	31.180	Thorntons Recycling Permit: NWCPO-09-01190-05	Thorntons Recycling Permit/Licence: WFP-DC-10-0021-02 Address: Unit 51 Henry Road, Park West Business Park, Dublin 12	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Thorntons Recycling Permit/Licence: WFP-DC-10-0021-02 Address: Unit 51 Henry Road, Park West Business Park, Dublin 12	R03 - Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)
20 03 01	Mixed Municipal Waste	Non-Hazardous	93.234	Thorntons Recycling Permit: NWCPO-09-01190-05	Thorntons Recycling Centre (Ballyfermot) Permit/Licence: W0044-02 Address: Killeen Road, Ballyfermot, Dublin 10, Dublin.	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Thorntons Recycling Permit/Licence: WFP-DC-11-0023-02 Address: Unit 6 S3B Henry Road, Park West Business Park, Dublin 12	R01 - Use principally as a fuel or other means to generate energy
20 03 01	Mixed Municipal Waste	Non-Hazardous	39.539	Thorntons Recycling Permit: NWCPO-09-01190-05	Thorntons Recycling Permit/Licence: WFP-DC-10-0021-02 Address: Unit 51 Henry Road, Park West Business Park, Dublin 12	R13 - Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)	Thorntons Recycling Permit/Licence: WFP-DC-11-0023-02 Address: Unit 6 S3B Henry Road, Park West Business Park, Dublin 12	R03 - Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)