

Facility Information Summary	
AER Reporting Year	2018
Licence Register Number	P0392-01
Name of site	Jamestown Metal Resources
Site Location	Jamestown Road, Inchicore, Dublin 8
NACE Code	2443
Class/Classes of Activity	3.4.1 (b) The melting, including alloyage, of non-ferrous metals, including recovered products, and operation of non-ferrous metal foundries, with a melting capacity exceeding 4 tonnes per day for lead and cadmium or 20 tonnes per day for all other metals
National Grid Reference (6E, 6 N)	310855E, 233053N
A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.	<p>The Jamestown Metal Resources (JMR) facility completes the heating and rolling of lead for the construction industry in Ireland and abroad. The concrete floor and the asbestos roof in the lead production area were replaced in 2018. The production volumes for 2018 have remained consistent since 2017 with a slight decrease of 1.28% (6,112 tonnes in 2017 and 6,034 in 2018). The site received 0 complaints and had 1 incident in 2018. The incident was related to surface water emissions which have been outlined in this report. During 2018 JMR completed environmental monitoring and sampling as part of their Licence compliance. The results of the monitoring and sampling indicated that concentrations of lead in air emissions from the facility were significantly less than the Licence ELV of 2 mg/m3. Groundwater sampling indicated that all samples collected at MW01, MW02 and MW04 were less than the regulatory limits and/or the applicable EPA IGV for all parameters with the exception of potassium in MW01 and MW04 and zinc in MW02. Surface water samples collected at MH01 contained lead concentrations that exceeded the 2009 Surface Water Regulation limit for the 1st Biannual sampling event. Remedial action (i.e., replacement of a section of roof and cleaning of the remaining roof area) was completed and the lead concentration at MH01 was less than the limit for the 2nd Biannual sampling event.</p>

Declaration:

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

Gerry O' Riordan	22/03/2019
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

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Answer all questions and complete all tables where relevant

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

Additional information	
Yes	One stack emission point (A2-1) was operational during 2018

Periodic/Non-Continuous Monitoring

2 Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below

No	
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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](#)

Yes	
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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
A2-1 - Round 1	Lead and compounds (as Pb)	Biannual	2.0	All 1-hour averages < ELV	1.282	mg/m ³	yes	EN 14385	7.30997	
A2-1 - Round 1	Volumetric Flow	Biannual	N/A	N/A	10,384	m ³ /hr	N/A	EN 16911		
A2-1 - Round 2	Lead and compounds (as Pb)	Biannual	2.0	All 1-hour averages < ELV	0.49	mg/m ³	yes	EN 14385		
A2-1 - Round 2	Volumetric Flow	Biannual	N/A	N/A	9,449	m ³ /hr	N/A	EN 16911		

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

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Continuous Monitoring		

4	Does your site carry out continuous air emissions monitoring? If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)	No	
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	N/A	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	N/A	
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	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 exceedences in current reporting year	Comments
	SELECT			SELECT	SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

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

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

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

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

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

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AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: P0392-01 Year 2018

Additional information

<p>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</p>	Yes	<p>Surface water from roofs and hardstanding areas are discharged via a surface water system (MH01) which eventually enter the River Cammock off-site.</p>
<p>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</p>	Yes	<p>A visual examination of surface water discharge is carried out weekly as per condition 8.1.1. No contamination was observed during 2018.</p>

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

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

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

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

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

<p>3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below</p>	Yes	<p>The lead concentration in MH01 exceeded the 2009 Surface Water Regulation limit during the 2018 1st Biannual sampling event and the subsequent follow up sampling events in that period. The exceedances were due to rain water run off from the roof. Part of the roof was replaced and the remainder of the roof cleaned as a remedial action. The lead concentration during the 2nd biannual sampling event was less than the 2009 Surface Water limit and less than the laboratory limit of detection. All exceedances were reported to the Agency and the 2018 surface water reports have been uploaded to Eden.</p>
<p>4 Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box</p>	Yes	<p>External/Internal Lab Quality checklist Assessment of results checklist</p>

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

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof ^{Note 2}	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
MH01 - 05/03/2018	Water	Copper and compounds (as Cu)	discrete	Biannually	N/A	5	All values < ELV	<7***	µg/L	yes	ICP-OES	ISO 17025 (UKAS/SANAS)	TM30/PM14	N/A	N/A
MH01 - 05/03/2018	Water	Lead and compounds (as Pb)	discrete	Biannually	N/A	7.2	All values < ELV	152	µg/L	no	ICP-OES	ISO 17025 (UKAS/SANAS)	TM30/PM14	N/A	Lead is above the limit of 7.2 µg/L set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
MH01 - 23/03/2018	Water	Copper and compounds (as Cu)	discrete	Follow up sampling	N/A	5	All values < ELV	<20***	µg/L	yes	ICP-OES	ISO 17025 (UKAS/SANAS)	TM30/PM14	N/A	N/A
MH01 - 23/03/2018	Water	Lead and compounds (as Pb)	discrete	Follow up sampling	N/A	7.2	All values < ELV	63	µg/L	no	ICP-OES	ISO 17025 (UKAS/SANAS)	TM30/PM14	N/A	Lead is above the limit of 7.2 µg/L set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
MH01 - 18/05/2018	Water	Lead and compounds (as Pb)	discrete	Follow up sampling	N/A	7.2	All values < ELV	19	µg/L	no	ICP-OES	ISO 17025 (UKAS/SANAS)	TM30/PM14	N/A	Lead is above the limit of 7.2 µg/L set in S.I. No. 272 of the European Communities Environmental Objectives (Surface Water) Regulations 2009
MH01 - 11/07/18	Water	Copper and compounds (as Cu)	discrete	Biannually	N/A	5	All values < ELV	<7***	µg/L	yes	ICP-OES	ISO 17025 (UKAS/SANAS)	TM30/PM14	N/A	N/A
MH01 - 11/07/18	Water	Lead and compounds (as Pb)	discrete	Biannually	N/A	7.2	All values < ELV	<5***	µg/L	yes	ICP-OES	ISO 17025 (UKAS/SANAS)	TM30/PM14	N/A	N/A

*** - Result less than the laboratory Limit of Detection

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

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

Continuous monitoring

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

No	Additional Information
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If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

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

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

SELECT	
--------	--

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

SELECT	
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Table W4: Summary of average emissions -continuous monitoring

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

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

Table W5: Abatement system bypass reporting table

Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
						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 bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)

- 1
- 2 Please provide integrity testing frequency period
- Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
- 3
- 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?
- 13 Is the Fire Water Retention Pond included in your integrity test programme?

Yes	
3 years	
Yes	Concrete Bund
1	Completed in November (Bund 11)
4	
Yes	Completed in March (Mobile Bund 1, 2, 8 & 10)
4	
N/A	

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 1	prefabricated		machine & grinder fluid, AdBlue additive, hydraulic oil, milcool water soluble oil and grease	3,080 litres	1,100 litres	physical and hydrostatic		09/03/2018	yes	Pass	N/A	N/A	3 years	N/A
Bund 2	prefabricated		hydraulic oil and machine & grinder fuel	500 litres	220 litres	physical and hydrostatic		09/03/2018	yes	Pass	N/A	N/A	3 years	N/A
Bund 8	prefabricated		hydraulic oil	300 litres	220 litres	physical		09/03/2018	yes	Pass	N/A	N/A	3 years	N/A
Bund 10	prefabricated		hydraulic oil	500 litres	220 litres	physical and hydrostatic		09/03/2018	yes	Pass	N/A	N/A	3 years	N/A
Bund 11	reinforced concrete		diesel fuel	12,915 litres	4,950 litres	physical and hydrostatic		06/11/2018	yes	Pass	N/A	N/A	3 years	N/A

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

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

[bundings 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	
N/A	
N/A	

Pipeline/underground structure testing

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

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

N/A	
N/A	

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

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

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

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Comments		
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	yes	
2 Are you required to carry out soil monitoring as part of your licence requirements?	no	
3 Do you extract groundwater for use on site? If yes please specify use in comment section	no	
4 Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Groundwater monitoring template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	yes	
5 Is the contamination related to operations at the facility (either current and/or historic)	no	Upgradient well MW02 contained zinc concentrations that exceeded the IGV in March and July. JMR have no known sources of zinc from their process. Well MW01 contained potassium concentrations above the IGV in July and MW04 contained potassium concentrations above the IGV in March and July. Potassium source may be from external sources from fertilizers etc. JMR do not use potassium based materials on site.
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?	no	
9 Has any type of risk assessment been carried out for the site?	no	
10 Has a Conceptual Site Model been developed for the site?	yes	Completed as part of groundwater screening assessment completed for site in 2016.
11 Have potential receptors been identified on and off site?	yes	
12 Is there evidence that contamination is migrating offsite?	no	

Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretation as an additional section in this AER

Bi-annual monitoring was carried out at 3 IED monitoring wells in 2018. MW02 is considered to be an up gradient well and MW01 and MW04 are down gradient wells for the site. All monitoring results were in compliance with the relevant GTV's or IGV's with the exception of zinc and potassium. The IGV for zinc is 100 mg/l. Zinc concentrations were elevated in the March (323 mg/l) and July (293 mg/l) monitoring events at MW02. The IGV for potassium is 5 mg/l. Potassium concentrations in MW01 were elevated in July (5.5 mg/l). Potassium concentrations in MW04 were elevated in March (12.8 mg/l) and July (15.2 mg/l). The 2018 biannual groundwater reports have been uploaded to Eden and contain additional information on any exceedances that have been recorded.

Groundwater/Soil monitoring template

Lic No:

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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
05/03/2018 11/07/2018	MW02	pH	pH meter (Electrode)	Biannually	7.74	7.49	pH units	6 < pH < 9		No
05/03/2018 11/07/2018	MW02	EC	Conductivity meter (Electrode)	Biannually	581	511	µS/cm	1875		No
05/03/2018 11/07/2018	MW02	Temperature	Thermometer	Biannually	13.3	10	ug/l°C	25		No
05/03/2018 11/07/2018	MW02	Aluminium	ICP-OES/ICP-MS	Biannually	<20	<20	ug/l	150		No
05/03/2018 11/07/2018	MW02	Arsenic	ICP-OES/ICP-MS	Biannually	<2.5	<2.5	ug/l	7.5		No
05/03/2018 11/07/2018	MW02	Cadmium	ICP-OES/ICP-MS	Biannually	<0.5	<0.5	ug/l	37.5		No
05/03/2018 11/07/2018	MW02	Chromium	ICP-OES/ICP-MS	Biannually	<1.5	<1.5	ug/l	3.75		No
05/03/2018 11/07/2018	MW02	Copper	ICP-OES/ICP-MS	Biannually	<7	<7	ug/l	1500		No
05/03/2018 11/07/2018	MW02	Lead	ICP-OES/ICP-MS	Biannually	<5	<5	ug/l	18.75		No
05/03/2018 11/07/2018	MW02	Magnesium	ICP-OES/ICP-MS	Biannually	7.1	4.8	mg/l		50	No
05/03/2018 11/07/2018	MW02	Mercury	ICP-OES/ICP-MS	Biannually	<1	<1	ug/l	0.75		No
05/03/2018 11/07/2018	MW02	Nickel	ICP-OES/ICP-MS	Biannually	<2	<2	ug/l	150		No
05/03/2018 11/07/2018	MW02	Potassium	ICP-OES/ICP-MS	Biannually	4.4	3.8	mg/l		5	No
05/03/2018 11/07/2018	MW02	Selenium	ICP-OES/ICP-MS	Biannually	<3	<3	ug/l			No
05/03/2018 11/07/2018	MW02	Sodium	ICP-OES/ICP-MS	Biannually	29.7	21.9	mg/l		150	No
05/03/2018 11/07/2018	MW02	Zinc	ICP-OES/ICP-MS	Biannually	323	308	ug/l		100	No

*** - Result less than the laboratory Limit of Detection

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

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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
05/03/2018 11/07/2018	MW01	pH	pH meter (Electrode)	Biannually	7.32	7.26	pH units	6 < pH < 9		No
05/03/2018 11/07/2018	MW01	EC	Conductivity meter (Electrode)	Biannually	804	732	µS/cm	1875		No
05/03/2018 11/07/2018	MW01	Temperature	Thermometer	Biannually	13.4	11.7	ugl°C	25		No
05/03/2018 11/07/2018	MW01	Aluminium	ICP-OES/ICP-MS	Biannually	<20	<20	ug/l	150		No
05/03/2018 11/07/2018	MW01	Arsenic	ICP-OES/ICP-MS	Biannually	<2.5	<2.5	ug/l	7.5		No
05/03/2018 11/07/2018	MW01	Cadmium	ICP-OES/ICP-MS	Biannually	<0.5	<0.5	ug/l	3.75		No
05/03/2018 11/07/2018	MW01	Chromium	ICP-OES/ICP-MS	Biannually	<1.5	<1.5	ug/l	3.75		No
05/03/2018 11/07/2018	MW01	Copper	ICP-OES/ICP-MS	Biannually	<7	<7	ug/l	1500		No
05/03/2018 11/07/2018	MW01	Lead	ICP-OES/ICP-MS	Biannually	<5	<5	ug/l	18.75		No
05/03/2018 11/07/2018	MW01	Magnesium	ICP-OES/ICP-MS	Biannually	18.3	18.1	mg/l		50	No
05/03/2018 11/07/2018	MW01	Mercury	ICP-OES/ICP-MS	Biannually	<1	<1	ug/l	0.75		No
05/03/2018 11/07/2018	MW01	Nickel	ICP-OES/ICP-MS	Biannually	<2	<2	ug/l	150		No
05/03/2018 11/07/2018	MW01	Potassium	ICP-OES/ICP-MS	Biannually	5.5	5.25	mg/l		5	No
05/03/2018 11/07/2018	MW01	Selenium	ICP-OES/ICP-MS	Biannually	<3	<3	ug/l	150		No
05/03/2018 11/07/2018	MW01	Sodium	ICP-OES/ICP-MS	Biannually	37	29.55	mg/l		150	No
05/03/2018 11/07/2018	MW01	Zinc	ICP-OES/ICP-MS	Biannually	40	25	ug/l		100	No
05/03/2018 11/07/2018	MW04	pH	pH meter (Electrode)	Biannually	6.88	6.88	pH units	6 < pH < 9		No
05/03/2018 11/07/2018	MW04	EC	Conductivity meter (Electrode)	Biannually	1012	996	µS/cm	1875		No
05/03/2018 11/07/2018	MW04	Temperature	Thermometer	Biannually	13.6	11.75	ugl°C	25		No
05/03/2018 11/07/2018	MW04	Aluminium	ICP-OES/ICP-MS	Biannually	<20	<20	ug/l	150		No
05/03/2018 11/07/2018	MW04	Arsenic	ICP-OES/ICP-MS	Biannually	4	4	ug/l	7.5		No
05/03/2018 11/07/2018	MW04	Cadmium	ICP-OES/ICP-MS	Biannually	<0.5	<0.5	ug/l	3.75		No
05/03/2018 11/07/2018	MW04	Chromium	ICP-OES/ICP-MS	Biannually	<1.5	<1.5	ug/l	3.75		No
05/03/2018 11/07/2018	MW04	Copper	ICP-OES/ICP-MS	Biannually	<7	<7	ug/l	1500		No
05/03/2018 11/07/2018	MW04	Lead	ICP-OES/ICP-MS	Biannually	<5	<5	ug/l	18.75		No
05/03/2018 11/07/2018	MW04	Magnesium	ICP-OES/ICP-MS	Biannually	14.4	13.55	mg/l		50	No
05/03/2018 11/07/2018	MW04	Mercury	ICP-OES/ICP-MS	Biannually	<1	<1	ug/l	0.75		No
05/03/2018 11/07/2018	MW04	Nickel	ICP-OES/ICP-MS	Biannually	<2	<2	ug/l	150		No
05/03/2018 11/07/2018	MW04	Potassium	ICP-OES/ICP-MS	Biannually	15.2	14	mg/l		5	No
05/03/2018 11/07/2018	MW04	Selenium	ICP-OES/ICP-MS	Biannually	<3	<3	ug/l	150		No
05/03/2018 11/07/2018	MW04	Sodium	ICP-OES/ICP-MS	Biannually	13.3	13.2	mg/l		150	No
05/03/2018 11/07/2018	MW04	Zinc	ICP-OES/ICP-MS	Biannually	<3	<3	ug/l		100	No

*** - Result less than the laboratory Limit of Detection

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*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA. [Groundwater monitoring template](#)

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

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

Table 3: Soil results

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

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

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Environmental Liabilities template

Lic No:

P0392-01

Year

2018

[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

			Commentary
1	ELRA initial agreement status	N/A	An ELRA is not required under the EPA Licence for the facility however one was completed in 2008 and submitted to the Agency.
2	ELRA review status	N/A	
3	Amount of Financial Provision cover required as determined by the latest ELRA	N/A	
4	Financial Provision for ELRA status	N/A	
5	Financial Provision for ELRA - amount of cover	N/A	
6	Financial Provision for ELRA - type	N/A	
7	Financial provision for ELRA expiry date	N/A	
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
9	Closure plan review status	Review required and not completed	
10	Financial Provision for Closure status	Required but not submitted	
11	Financial Provision for Closure - amount of cover	-	
12	Financial Provision for Closure - type	-	
13	Financial provision for Closure expiry date	-	

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Environmental Management Programme/Continuous Improvement Programme template		Lic No:	P0392-01	Year	2018
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Highlighted cells contain dropdown menu click to view		Additional Information	
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	As per Licence Requirements
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
Materials Handling/Storage/Bunding	Bund Testing	100	Bund testing was carried out by consultants on Bund 1, Bund 2, Bund 8, Bund 10 and Bund 11 during 2018.	Individual	Improved Environmental Management Practices
Groundwater protection	Bi-annual groundwater sampling	100	Sampling was conducted by consultants at 3 locations on site to monitor groundwater quality surrounding the JMR facility.	Individual	Increased compliance with licence conditions
Surface water protection	Bi-annual surface water sampling	100	Sampling was conducted by consultants at 1 location on site to monitor surface water quality surrounding the JMR facility.	Individual	Increased compliance with licence conditions
Reduction of emissions to Air	Monitor Emissions to Atmosphere in accordance with the facility IED Licence	100	Stack sampling was carried out by consultants in 2018.	Individual	Increased compliance with licence conditions
Energy Efficiency/Utility conservation	Clean stack	100	Emission stack was cleaned during 2018 as part of inhouse EMP.	Individual	Increased compliance with licence conditions

Environmental Management Programme/Continuous Improvement Programme template				Lic No:	P0392-01	Year	2018
Additional improvements	Inspect hoses and pipes for leaks	100	Hoses and pipes on site were inspected weekly for leaks. Records of inspections are kept on site.	Individual	Improved Environmental Management Practices		
Additional improvements	House keeping	100	Housekeeping on the floor was inspected bi-weekly. Records of inspections are kept on site.	Individual	Improved Environmental Management Practices		
Additional improvements	Replace floor in production area	100	The concrete floor in the lead production area was replaced	Individual	Installation of infrastructure		
Additional improvements	Replace roof in production area	100	The asbestos roof in the lead production area was replaced.	Individual	Installation of infrastructure		
Additional improvements	Update working procedures	100	All working procedures for all work areas related to lead production were updated.	Individual	Improved Environmental Management Practices		
Additional improvements	ISO 9001 Accreditation	10	The application for ISO 9001 accreditation is currently being prepared.	Individual	Improved Environmental Management Practices		

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Noise monitoring summary report

Lic No: P0392-01 Year: 2018

- 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](#)
- 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)?
								<input type="text" value="SELECT"/>	<input type="text" value="SELECT"/>		<input type="text" value="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)

Resource Usage/Energy efficiency summary

Lic No: P0392-01

Year

2018

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
[SEAI - Large](#)
- Is the site a member of any accredited programmes for reducing energy usage/water conservation such
[Industry Energy](#)
[Network \(LIEN\)](#)
- 2 as the SEAI programme linked to the right? If yes please list them in additional information
- Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in
 additional information
- 3

Additional information

N/A	
No	
N/A	

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)				
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	249.971	231.47	-7.4%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	53.507	37.5	-29.92%	
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

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

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

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*	Water Emissions	Water Consumption	Unaccounted for Water:
					Volume Discharged back to environment(m ³ /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	
Groundwater							
Surface water							
Public supply	68.2	67.23	-1.42%		67	0.23	Water spillage
Recycled water							
Total							

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

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

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	38	30.78			7.22
Non-Hazardous (Tonnes)	11.0244	0.5896		10.4348	

Resource Usage/Energy efficiency summary Lic No: P0392-01 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
			SELECT					
			SELECT					
			SELECT					

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

	Unit ID	Unit ID	Unit ID	Unit ID	Station 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: P0392-01 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	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year							
Total new complaints received during reporting year							
Total complaints closed during reporting year							
Balance of complaints end of reporting year							

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

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

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
27/03/2018	Breach of ELV	Licenced discharge point (MH01)	1. Minor	Water	Other (add details)	Residual lead on roof	Normal activities	EPA	New	The roof section was replaced and remainder cleaned. Further monitoring indicated lead concentration below ELV	Continued monitoring	Complete	27/07/2018	Low
Total number of incidents current year	1													
Total number of incidents previous year	0													
% reduction/increase	100													

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WASTE SUMMARY	Lic No:	P0392-01	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

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)

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

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

N/A	
-----	--

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

N/A	
-----	--

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 European Waste Catalogue EWC codes	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/ Increase over previous year +/- %	Reason for reduction/ increase from previous reporting year	Packaging Content (%)- only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
	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 on site

N/A	
-----	--

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

N/A	
-----	--

6 Does your facility have relevant nuisance controls in place?

No	
----	--

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

No	
----	--

8 Do you maintain a sludge register on site?

No	
----	--

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
										SELECT UNIT	SELECT UNIT	SELECT UNIT
Cell 8												

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WASTE SUMMARY	Lic No: P0392-01	Year: 2018
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Table 4 Environmental monitoring-landfill only [Landfill Manual-Monitoring Standards](#)

Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting 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?

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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Comments on liner type

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Waste Summary Continued

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non-Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non-Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
Within the Country	13 08 02	Yes	7.22	Other emulsions	D9	Offsite in Ireland	Enva Ireland Ltd., W0184-01	Clonminam Industrial Estate, Portlaoise, County Laois	Enva Ireland Ltd., W0184-01	Clonminam Industrial Estate, Portlaoise, County Laois
Within the Country	15 01 03	No	4.352	Wooden packaging	R12	Offsite in Ireland	Thorntons Recycling, W0044-02	-	-	-
Within the Country	15 01 06	No	0.104	Mixed packaging	R12	Offsite in Ireland	Thorntons Recycling, W0044-02	-	-	-
To Other Countries	17 06 05	Yes	15.36	Construction materials containing asbestos	D5	Abroad	Rilta Environmental Ltd., W0192-03	140 Mallusk Road, Mallusk, Newtown Abbey, Co. Antrim, GB BT36 4QN	Biffa Waste Services Ltd., P0090/05A/V3	140 Mallusk Road, Mallusk, Newtown Abbey, Co. Antrim, GB BT36 4QN
To Other Countries	17 06 05	Yes	15.42	Construction materials containing asbestos	D5	Abroad	Rilta Environmental Ltd., W0192-03	Abfallverwertungsgesellschaft mBH & Co, DE DE23730 Neustadt- Beusloie, Germany	AVG Johannistal, A55E00002	Abfallverwertungsgesellschaft mBH & Co, DE DE23730 Neustadt- Beusloie, Germany
Within the Country	20 03 01 B	No	1.02	Municipal mixed residual non-household	R12	Offsite in Ireland	Thorntons Recycling, W0044-02	-	-	-
Within the Country	20 03 01	No	4.9588	Municipal mixed residual non-household	R12	Offsite in Ireland	Thorntons Recycling, W0044-02	-	-	-
Within the Country	20 03 01	No	0.5896	Municipal mixed residual non-household	D1	Offsite in Ireland	Thorntons Recycling, W0044-02	-	-	-

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