

INDUSTRIAL EMISSIONS LICENCE

ANNUAL ENVIRONMENTAL REPORT (A.E.R.)

FOR

**MESSRS JIM & MARK WRIGHT
T/A JMW FARMS
CROSSES
MONAGHAN
CO. MONAGHAN**

LICENCE REG. NO. P0696-02

**For period
1st January 2013 – 31st December 2013**

Prepared by:

**C.L.W. Environmental Planners Ltd.
The Mews
23 Farnham St.
Cavan**

March 2014

**JIM & MARK WRIGHT
JMW FARMS**

LICENCE REG. NO. P0696-02

ANNUAL ENVIRONMENTAL REPORT (A.E.R.)

1st JANUARY 2013 – 31st DECEMBER 2013

I. PREFACE

This report is provided to comply with Condition No. 11.7 of the Industrial Emissions Licence (Reg. No. P0696-02) issued to Jim & Mark Wright. This condition is as follows;

“The licensee shall submit to the Agency, by the 31st March of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in Schedule D: Annual Environmental Report, of this licence and shall be prepared in accordance with any relevant guidelines issued by the Agency.”

In January 2012 the EPA produced a Draft Guidance Document ‘Annual Environmental Report: Standardised Reporting Guidance’ together with an accompanying template for a standardised AER Report for IPPC (and Waste) licensed facilities. This standardised the submission date for AER’s to 31st March of each year. This AER has been prepared in accordance with this draft guidance and in line with the standardised reporting format outlined in this document. As such the template as updated in January 2013 for summary emissions and licence specific reports has been completed for this site and is included in this Report. As requested in the guidance document this report includes only the summary

information requested and all other associated documentation has been retained on site and is available for inspection if required.

II. **REPORT CONTENT**

In line with the *Standardised Reporting Guidance* this AER contains the following summary information.

1. Facility Summary Information
2. Air Emissions
3. Water
4. Bund Test (Intensive Agriculture)
5. Complaints – Incidents
6. Groundwater
7. Resource & Energy Use
8. Waste

Attachment A PRTR Workbook

Facility Information Summary

AER Reporting Year	2013
Licence Register Number	P0696-02
Name of site	Jim & Mark Wright (JMW Farms)
Site Location	JMW Farm, Crosses, Monaghan, Co. Monaghan
NACE Code	0147
Class of Activity	The rearing of pigs in an installation, whether within the same complex or within 100 metres of the same complex, where the capacity exceeds 285 places for sows in an integrated unit and 2,000 places for production pigs.
National Grid Reference (6E, 6 N)	-6.92725, 54.24015

A brief description of the activities/process at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance improvements which were measured during the reporting year;

This site is licensed as a 1,200 sow breeding unit.

Stock numbers-please enter **average** stock numbers and stock type e.g. Suckling sow+litter, Dry sow, Boars, Maiden gilts, Weaners , Finishers, broiler,layer,duck

As per PRTR Returns


Please state date of last stock count
Please enter stock numbers and type at last count

1/1/13 - 31/12/13

As per average numbers

Declaration:

All the data and information presented in this report has been provided by the Licensee. The information is presented to meet licence requirements.

	1st May 2014
Signature Consultant <small>(or nominated, suitably qualified and experienced deputy)</small>	Date

SURFACE WATER

Answer all questions and complete all tables where relevant

Additional Information

1 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 W1 below summarising <u>only any evidence of contamination noted during visual inspections</u>	Yes	
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Table W1 Visual inspections-Please only enter details where contamination was observed.

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
		None Observed	SELECT		
			SELECT		

2 Is it a requirement of your licence to carry out discharge to surface water monitoring? If Yes please complete Table W2 below	Yes
3 Please state what frequency you are required to complete surface water monitoring	

Table W2: Storm/Surface water discharge monitoring

Surface water EQS

Please enter details only where results indicate contamination has occurred

Emission reference no:	Parameter/ Substance ^{Note 1}	Date of Monitoring	Measured value	Unit of measurement	Comments	Description of contamination	Corrective action
SW	BOD	03/01/2013	2.3	mg/L			
SW	BOD	07/03/2013	4.4	mg/L			
SW	BOD	01/07/2013	12.2	mg/L			
SW	BOD	11/09/2013	5.2	mg/L			
				mg/L			
				mg/L			
				mg/L			

4 Is it a requirement of your licence to carry out licenced emissions monitoring? If Yes please complete Table W3 below	No
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Table W3: Licenced monitoring

Emission reference no:	Emission released to	Parameter/ Substance ^{Note 1}	Date of Monitoring	ELV or trigger values in licence or any revision thereof ^{Note 1}	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT			SELECT		SELECT	SELECT	

Note 1: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards. Trigger values may be agreed by the Agency outside of licence conditions

Answer all questions and complete Tables TP1, TP2 and TP3 as applicable Additional information if required

1	Is it a requirement of your licence to carry out a tank and pipeline assessment for effluent storage on site?	Yes	
2	Is it a requirement of your licence to submit a programme for agreement to the Agency prior to carrying out a tank and pipeline assessment?	Yes	
3	If Yes to Q2 has a programme been submitted to the Agency for agreement on the testing and inspection of under and over-ground effluent storage tanks and pipelines? Please enter date of submission in additional information	Yes	
4	What method has been proposed for the assessment of under and over ground effluent storage tanks and pipelines?	Visual	and Leak Detection
5	Have all structures been assessed for integrity in the past five years or as required by the licence. If no, please identify the structures which have not been assessed as required, in the Additional Information column. Also in the column, please state the date on which assessment was carried out.	Yes	12/09/2011
6	If Visual inspection was the method used were any cracks or defects detected? If yes please detail in additional information	No	
7	If yes to Q6 have the cracks or defects been repaired successfully? If no please explain in additional information	SELECT	N/a
8	If hydrogeological or geophysics investigation methods were used was there any evidence of contamination detected? If yes please detail in additional information	SELECT	N/a
9	If yes to Q8 please detail proposed or completed remediation work in additional information		N/a
10	Are there any leak detection systems on site? Please see Department of Agriculture's S126 and EPA guidance on Storage and Bunding of materials for required systems	S126.pdf	bundling and storage guidelines
		Yes	Tank 1 & 2 covered by LD
11	Does the leak detection system serve all housing units on site? (please state in the comments section number of units covered by the leak detection system and total number of units on site)	No	Tank 8 and whey bund overed by Engineers cert.
12	From the visual inspections carried out has any discharge been visible in the leak detection inspection chamber? If yes please enter details in table TP2	No	None observed
13	Was it a requirement of your licence to analyse samples for the current reporting year. If yes please enter details of any samples taken in table TP3 below	Yes	See details below
14	When is the next tank and pipeline assessment due?	On-going	
15	Does the licensee consider they are compliant with licence conditions?	Yes	
16	Include details of any other findings of report		None

Table TP1: Underground and Overground Tanks, Bund and pipeline register ALL Facilities to complete

Bund/Tank/Containment structure ID (this includes pipelines associated with Bunds/Tanks or containment structures)	Product containment	Type of integrity assessment	assessment date	Leak detection on containment structure?	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken
1	Liquid Manure	Combination	29/11/2013	Yes	Yes	Pass		
2	Liquid Manure	Combination	29/11/2013	Yes	Yes	Pass		
8	Liquid Manure	Combination	29/11/2013	Yes	Yes	Pass		

Table TP2: Visual inspection of leak detection chamber (Poultry facilities this table is not applicable please complete table TP1)

Date	Evidence of discharge	Samples taken (reference in TP3)

Table TP3: Samples collected from leak detection chamber (Poultry facilities this table is not applicable please complete table TP1)

Date	Sample frequency	Sample id	Colour/Odour	Parameter	ELV (if applicable)	Measured value
LD Chambers Dry						

Organic fertiliser storage capacity

Lic No:

P0696-02

Year:

2013

Please complete the table using the explanation of entries below as a guide

Table OFS.1 Storage capacity for Organic Fertiliser

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Type of Organic Fertiliser	Total organic fertiliser storage capacity (m3) (Estimate)	Opening Quantity of organic fertiliser (1 st January of reporting year) (Estimate)	Closing Quantity of organic fertiliser (1 st January of current calendar year) (Estimate)	Quantity of organic fertiliser produced by the animals housed on site in reporting year	Total quantity of organic fertiliser moved off site in reporting year (as recorded in the organic fertiliser register and "record 3" as submitted to DAFM*)	Where there is a difference between the amount moved off site (record 3 amount) and the amount generated (taking into account opening and closing amounts) provide details to account for this difference, e.g. applying organic fertiliser to Licencee's farmland.	Have records of movement of organic fertiliser (record 3) for the reporting year been submitted to DAFM?
Pig Slurry	12997.91	8144	7537.49	10387	10296	Negligible difference	Yes

*DAFM -Department of Agriculture Food and Marine

Column **a** The total organic fertiliser storage capacity is calculated by summing storage capacity onsite. If applicable, Agency agreed off-site storage should be added to the total on-site.

Column **b** This is the opening quantity of organic fertiliser recorded on 1st of January of AER reporting year

Column **c** This is the quantity of organic fertiliser at close of reporting year calculated by recording the opening quantity on 1st January of the current calendar year

Column **d** This is the quantity of organic fertiliser generated by the animals housed on site in the AER reporting year

Column **e** Total quantity of organic fertiliser moved off site and recorded in the organic fertiliser register and "record 3" as submitted to DAFM* in AER reporting year

Column **f** If there is a difference between the amount recorded in the Record 3 form submitted (**e**) and the amount recorded by adding together the opening quantity (**b**) and amount generated (**d**) and subtracting the closing quantity (**c**) i.e. if **e** does not match **b + d - c**, account for the mismatch, for example where the unit is applying organic fertiliser on their own landbank

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Comments

1	Are you required to carry out groundwater monitoring as part of your licence requirements? If Yes complete table GW1 below	no	
2	Were any results in exceedance of a relevant Groundwater threshold value (GTV) ?	Groundwater regulations GTV's no	N/a
3	What measures were taken to investigate the exceedances of GTV's ? detail in additional information section below	SELECT	N/a

Table GW1:Groundwater monitoring results

This site is licensed as a 500 sow unit with 100 gilts and production pigs up to 4,200 pigs.

Date of sampling	Sample location reference	Parameter/ Substance	Monitoring frequency	unit	GTV's*	SELECT**	Maximum Concentration	Average Concentration

* please note exceedance of a relevant Groundwater threshold value (GTV) at a representative monitoring point does not indicate non-compliance, an exceedance triggers further investigation to confirm whether the criteria for poor groundwater chemical status are being met.

**Depending on location of the site and proximity to other sensitive receptors Alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water (Environmental Quality Standards (SWEQS), if the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS).

[Groundwater regulations](#) [Drinking water \(private supply\)](#) [Drinking water \(public supply\) standards](#) [Interim Guideline Values \(IGV\)](#)
[Surface water EQS](#) [GTV's](#) [standards](#)

.+ where average indicates arithmetic mean

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

Additional Information

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

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Additional information

1 When did the site carry out the most recent energy efficiency audit?

01/11/2013	
no	
SELECT	N/a

2 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 \(LIEN\)](#)

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

Table ER1 Energy usage on site		
Energy Use	Previous year kWh	Current year kWh
Total		137,888.0
Electricity		131,903.0
Fossil Fuels:		
Heavy Fuel Oil		
Light Fuel Oil		5,985.0
Natural gas		
Coal/Solid fuel		
Renewable energy generated on site		

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

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

Table ER2 Water usage on site		
Water use	Previous year m3/yr.	Current year m3/yr.
Groundwater		c.13,000
Surface water		
Public supply		
Total	0	c.13,000

* 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 ER3: 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

Answer all questions and fill in the incident summary table I1 below

Complaints			
Have you received any environmental complaints in the current reporting year? If yes please state the total number received during the reporting year	<table border="1"> <tr> <td>No</td> <td>Total new complaints received during reporting year</td> </tr> </table>	No	Total new complaints received during reporting year
No	Total new complaints received during reporting year		

Incidents			
Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table I1 below	<table border="1"> <tr> <td>No</td> <td>Additional information</td> </tr> </table>	No	Additional information
No	Additional information		

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

Table I1: Incidents summary

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
SELECT	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
SELECT	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
SELECT	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
SELECT	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
SELECT	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of incidents current year														

Attachment A

PRTR Workbook



Environmental Protection Agency

[PRTR]# P0696 | Facility Name: Messrs Jim & Mark Wright | Filename: P0696_2013.xls | Rollout Year: 2013

22/05/2014 17:00

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.12

REFERENCE YEAR	2013
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1. FACILITY IDENTIFICATION

Parent Company Name	Messrs Jim & Mark Wright
Facility Name	Messrs Jim & Mark Wright
PRTR Identification Number	P0696
Licence Number	P0696-02

Waste or IPPC Classes of Activity	No.	class_name
	6.2	The rearing of pigs in installations, whether within the same complex or within 100m of the same complex, where the capacity exceeds: 750 places for sows in breeding unit or 285 places for sows in an integrated unit, or 2,000 places for production pigs.

Address 1	c/o C.L.W. Environmental Planners Ltd.
Address 2	The Mows
Address 3	23 Farnham Street
Address 4	Cavan
	Cavan
Country	Ireland
Coordinates of Location	-6.92725 54.24015
River Basin District	GBNIIENB
NACE Code	0146
Main Economic Activity	Raising of swine/pigs
AER Returns Contact Name	Paraic Fay
AER Returns Contact Email Address	paraic@clwenvironmental.ie
AER Returns Contact Position	Environmental Consultant
AER Returns Contact Telephone Number	049-4371447
AER Returns Contact Mobile Phone Number	0876794459
AER Returns Contact Fax Number	049-4371451
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	1
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
7(a)(ii)	Installations for the intensive rearing of poultry or pigs (ii)

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	
Have you been granted an exemption?	
If applicable which activity class applies (as per Schedule 2 of the regulations)?	
Is the reduction scheme compliance route being used?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities)?	No
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This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		METHOD			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	QUANTITY		
			Method Code	Designation or Description		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
98	Ammonia (NH3)	C	NRB	EPA Calculation Tool	11,799.1	11799.1	0.0	0.0
01	Methane (CH4)	C	NRB	EPA Calculation Tool	88,012.0	88012.0	0.0	0.0
99	Nitrous oxide (N2O)	C	NRB	EPA Calculation Tool	73.6	73.6	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

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

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

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill:		Messrs Jim & Mark Wright			
Please enter summary data on the quantities of methane flared and / or utilised		M/C/E	Method Used		Facility Total Capacity m3 per hour
T (Total) kg/Year			Method Code	Designation or Description	
Total estimated methane generation (as per site model)		0.0			N/A
Methane flared		0.0			0.0 (Total Flaring Capacity)
Methane utilised in engine/s		0.0			0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)		0.0			N/A

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# P0608 | Facility Name Messrs Jim & Mark Wright | Filename P0608_2013.xls | Return Year : 2013 |

22/05/2014 17:00

Please enter all quantities on this sheet in Tonnes

7

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Licence/Permit No of Next Destination Facility Haz Waste: Name and Licence/Permit No of Recover/Disposer Non	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)
						M/C/E	Method Used					
Within the Country	02 01 02	No	69.32	animal-tissue waste	R3	M	Weighted	Offsite in Ireland	College Proteins Ltd,P0037-03	Nobber,Co. Meath,,,Ireland		
Within the Country	18 02 02	Yes	0.005	wastes whose collection and disposal is subject to special requirements in order to prevent infection	D10	C	Volume Calculation	Offsite in Ireland	SRCL Ltd.,WCP-DC-09-1178-01 McElvaney Waste & Recycling,WCP/MH/5/0089/01	430 Beech Road,Western Industrial Estate ,Nass Road,Dublin,Ireland	SRCL Ltd.,W0055-02,430 Beech Road,Western Industrial Estate,Nass Road,Dublin,Ireland	430 Beech Road,Western Industrial Estate,Nass Road,Dublin,Ireland
Within the Country	20 01 01	No	0.2	paper and cardboard	R3	C	Volume Calculation	Offsite in Ireland	Monaghan Electrical Wholesale Ltd.,WEEE Ireland Reference no. MON100 McElvaney Waste & Recycling,WCP/MH/5/0089/01	Corcaghan,Monaghan,,,Ireland and Plantation Road ,Monaghan ,Co. Monaghan,,Ireland	Irish Lamp Recycling Ltd.,WFP-KE-08-0348-01,Woodstock Industrial Estate,Kilkenny Road,Athy,Co. Kildare,Ireland	Woodstock Industrial Estate,Kilkenny Road,Athy,Co. Kildare,Ireland
Within the Country	20 01 21	Yes	0.005	fluorescent tubes and other mercury-containing waste	R4	C	Volume Calculation	Offsite in Ireland	MON100 McElvaney Waste & Recycling,WCP/MH/5/0089/01	Corcaghan,Monaghan,,,Ireland and		
Within the Country	20 03 01	No	1.2	mixed municipal waste	D1	C	Volume Calculation	Offsite in Ireland				

* Select a row by double-clicking the Description of Waste then click the delete button

[Link to previous years waste data](#)

[Link to previous years waste summary data & percentage change](#)

[Link to Waste Guidance](#)