



O'Brien Pig Enterprises
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30th March 2018

Environmental Protection Agency

Dear Sirs,

LICENCE P0396-01
AER RETURN 2017

We confirm that 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.

Yours faithfully

A handwritten signature in black ink, appearing to read 'Philip O'Brien'. The signature is fluid and cursive, with a long horizontal stroke at the end.

Philip O'Brien

Annual Environment Report
2017

License Register No
P0396-01

Licensee
Maurice O'Brien

Location of Activity
Derrynanool
Mitchelstown
Co. Cork

March 2018

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1.0 Introduction

This document consists of reports and data to ensure fulfillment of the license obligation under the Integrated Pollution Control License.

Licensee: Maurice O'Brien

License Reg Number: Reg No P0396-01

Location of Activity: Derrynanool, Mitchelstown, Co Cork

I.P.C Class No: 6.2

I.P.C Class Description:

The rearing of pigs in installations whether within the same complex, or within 100 meters of that complex. Where the capacity exceeds 285 places for sows in an integrated unit, where "integrated unit" means a piggery in which pigs are bred and reared to slaughter.

2.0 Description of the Activities

The production unit is located on an isolated site, in a wholly agricultural area, approximately 3.5 km from Mitchelstown town center. The site is located in the catchment area of the River Funcheon. The nearest private dwelling is approximately 650m to the north of the unit.

The unit has been licensed by the Environmental Protection Agency since 31st December 1998, and the family owned business is run by Mrs. Mairead O'Brien and her son Mr. Philip O'Brien. A second license is also held Reg No P0494-01 in the townland of Corracunna, Mitchelstown and is currently used as a finishing unit for the (P0396-01) Derrynanool farm.

The operating capacity of the site is set out in Table 1 below. The estimated volume of pig's slurry produced from these stocks during 2017 was 32,009m³.

Table 1 : Average stocking level at the site (2008-2017)

Animal Type	Stock Numbers on IPC Licence Reg No 396-01	Average Stock Numbers on site for 2008	Average Stock Numbers on site for 2009	Average Stock Numbers on site for 2010	Average Stock Numbers on site for 2011	Average Stock Numbers on site for 2012	Average Stock Numbers on site for 2013	Average Stock Numbers on site for 2014	Average Stock Numbers on site for 2015	Average Stock Numbers on site for 2016	Average Stock Numbers on site for 2017
Suckling Sows	530	512	341	528	524	527	528	528	528	521	523
Dry Sows	1,870	1,859	1,098	1,771	1,868	1,862	1,865	1,751	1,868	1,804	1,723
Boars	20	10	4	4	15	20	15	20	20	16	11
Maiden Gilts	240	230	163	209	214	232	234	237	236	239	232
Weaners	8,200	8,049	4,848	5,829	8,195	8,180	8,190	6,347	8,191	7,748	7,093
Finishers	12,000	11,714	5,033	10,917	11,750	11,475	11,547	11,097	11,935	9,939	10,265

3.0 Summary Information

During 2017 11,587 tonnes of animal feed, 18,835 heating oil, 1,068,263 units of electricity and 105,604 units of natural gas were utilised in the process.

Table 2 : Summary of Production units

Units	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Tonnes of Feed	11,144	8,480	12,107	15,379	12,051	11,820	16,482	16,800	10,518	11,587
Litres of Heating Oil	326,444	258,893	397,385	295,900	123,543	62,231	117,303	84,390	22,282	18,835
Natural Gas		-		-	77,815	129,448	123,068	105,774	113,730	105,604
Units of Electricity	1,110,610	301,109	1,103,670	1,101,030	1,076,730	1,137,480	1,050,056	1,112,044	1,080,182	1,068,263
M3 of Water	37,664	35,621	34,500	35,602	32,133	31,655	44,369	44,417	27,808	36,847

3.1 Pig Manure Storage Capacity

The available pig manure storage capacity is recorded monthly on site and reported monthly to the Agency. This data is summarised in Table 3 below, and presented as the percentage of storage capacity available at the end of each month. The empirical data demonstrates that there is sufficient suitable storage on site. The available slurry storage capacity of this farm is 32,195 m³.

Table 3 : Summary of available pig manure capacity (2000 – 2017)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2000	51%	51%	48%	42%	37%	68%	68%	67%	65%	55%	45%	37%
2001	33%	35%	39%	37%	49%	66%	70%	76%	73%	70%	61%	49%
2002	41%	36%	43%	52%	54%	49%	67%	68%	71%	67%	63%	46%
2003	36%	38%	42%	60%	59%	66%	70%	76%	72%	72%	66%	57%
2004	44%	49%	58%	48%	56%	45%	52%	60%	61%	57%	52%	50%
2005	28%	22%	27%	30%	29%	35%	50%	53%	51%	53%	44%	37%
2006	30%	32%	78%	46%	44%	44%	55%	48%	38%	41%	34%	25%
2007	20%	21%	23%	56%	41%	49%	46%	55%	53%	51%	43%	39%
2008	31%	35%	39%	45%	49%	58%	69%	72%	81%	78%	69%	60%
2009	100%	100%	100%	100%	100%	100%	100%	100%	96%	90%	75%	72%
2010	43%	35%	59%	75%	69%	68%	68%	73%	85%	81%	79%	75%
2011	63%	59%	57%	59%	66%	70%	71%	69%	88%	74%	60%	52%
2012	69%	65%	72%	71%	78%	71%	65%	66%	72%	71%	75%	68%
2013	40%	39%	49%	66%	71%	74%	65%	70%	70%	63%	60%	53%
2014	21%	26%	51%	73%	85%	63%	63%	63%	75%	71%	50%	40%
2015	30%	29%	49%	42%	53%	54%	60%	63%	59%	58%	47%	36%
2016	22%	23%	50%	61%	46%	48%	47%	43%	43%	61%	49%	38%
2017	46%	37%	37%	40%	46%	52%	60%	68%	72%	75%	44%	32%

3.2 Pig Manure Analyses

The nutrient content of pig manure from this facility is currently in accordance with S.I No 31 of 2014 as 0.8 KGs P/M3 and 4.2 KGs N/M3.

3.3 Alterations to Customers Lands

Pig organic waste was delivered or collected by farmers in the area for use as fertiliser to produce agriculture crops in accordance with the Nitrate Directive Regulation (S.I No 31 2014) during 2017. A summary report was sent to the Department of Agriculture Food & Marine (22nd December 2017) outlining the individual farms which received a total of 32,538m³ organic waste.

3.4 Contractors Undertaking Delivery of Pig Manure

There were no alterations to the list of contactors undertaking delivery of pig manure to customer farms during this period.

3.5 Pig Manure Spreading Register

A pig manure register is maintained on site. This register contains commercial sensitive information for inspection during normal hours. The pig manure from this facility is utilised as fertiliser on agricultural crops, on clearly identified parcels of land, in accordance with nutrients requirements and therefore is not waste, as determined by the European Court of Justice.

3.6 Fertiliser Plan

A Fertiliser Plan for customer farms is the responsibility of the individual customer as is farm responsibility to ensure compliance with the Nitrate Directive Regulation.

3.7 Waste Not Destined for Land spreading

The Waste Management Records for waste not destined for land spreading are included as Attachment No 2. These include the registers for pig carcasses, refuse, veterinary waste, fluorescent tubes. The total volumes removed off site are set out in Table 4.

Table 4 : Summary of Waste Volumes Exported (2003-2017)

Waste Type	Pig Carcasses (Tonnes)	Veterinary Waste (Litres)	General Refuse (Tonnes)	Fluorescent Tubes (Kg)
	EWC 18 02 01	EWC 02 01 03	EWC 02 01 04	
2003	166.02	12	11.63	
2004	185.56	4	12.3	
2005	223.71	4	11.4	
2006	290.99	5	12.1	
2007	260.64	14	11.79	
2008	254.3	20	12.11	
2009	105.2	20	11.14	
2010	139.95	20	7.61	
2011	135.39	20	9.8	32
2012	136	8.2	10.51	
2013	149.3	21	10.14	
2014	130.94	36	9.83	
2015	151.04	70	10.5	
2016	150.8	40	3.9	
2017	152.83	60	12.7	

3.8 Environmental Incidents and Complaints

There were no complaints or incidents regarding the facility in the reporting period. This facility was last inspected by the Agency on 26th November 2016 and the resultant inspection report was issued on the 15th December 2017. This was an announced inspection. There were no non-compliances issued during this inspection.

3.9 Self-Monitoring Data

3.9.1 Ambient Surface Water Monitoring

A summary of ambient surface water monitoring, ground monitoring, and storm water monitoring for this facility for 2010 to 2017 is set out in Table 5.

Table 5 : Ambient Surface Water Monitoring Results (2010 -2017)

						Location					
Date	Location Ref	COD	Ammonia	Total "N"	Total "P"	Date	Ref	COD	Ammonia	Total "N"	Total "P"
2010 1st QTR	BR 10	Dry	Dry	Dry	Dry	2013 1st QTR	BR 10	32	<0.01	7.2	0.11
	BR 11	Dry	Dry	Dry	Dry		BR 11	39	0.01	9.8	0.21
2010 2nd QTR	BR 10	Dry	Dry	Dry	Dry	2013 2nd QTR	BR 10	48	2.5	5	0.4
	BR 11	Dry	Dry	Dry	Dry		BR 11	35	1.4	2.6	0.5
2010 3rd QTR	BR 10	8	0.6	7.1	3.6	2013 3rd QTR	BR 10	18	0.7	7.5	0.6
	BR 11	16	2.3	2.8	1.7		BR 11	18	0.7	7.5	0.62
2010 4th QTR	BR 10	7	0.2	1.9	0.4	2013 4th QTR	BR 10	12	0.03	1.2	0.02
	BR 11	6	0.1	0.5	0.3		BR 11	7	0.01	0.7	<0.01
2011 1st QTR	BR 10	Dry	Dry	Dry	Dry	2014 1st QTR	BR 10	Dry	Dry	Dry	Dry
	BR 11	Dry	Dry	Dry	Dry		BR 11	Dry	Dry	Dry	Dry
2011 2nd QTR	BR 10	Dry	Dry	Dry	Dry	2014 2nd QTR	BR 10	6	0.03	0.5	0.1
	BR 11	Dry	Dry	Dry	Dry		BR 11	7	0.04	0.5	0.09
2011 3rd QTR	BR 10	8	3.3	8.3	0.6	2014 3rd QTR	BR 10	32	0.02	1.4	0.1
	BR 11	10	2.4	9.1	0.5		BR 11	37	0.05	1.7	0.06
2011 4th QTR	BR 10	Dry	Dry	Dry	Dry	2014 4th QTR	BR 10	31	0.14	0.4	0.25
	BR 11	Dry	Dry	Dry	Dry		BR 11	26	0.05	0.3	0.32
2012 1st QTR	BR 10	39	0.08	11.9	0.63	2015 1st QTR	BR 10	32	0.71	2.8	0.62
	BR 11	31	0.06	11.1	0.6		BR 11	29	0.63	2.7	0.61
2012 2nd QTR	BR 10	44	1.6	<u>1</u>	0.62	2015 2nd QTR	BR 10	44	6.4	12.5	1.87
	BR 11	43	1.7	0.8	1.56		BR 11	17	3.6	16.7	0.62
2012 3rd QTR	BR 10	Dry	Dry	Dry	Dry	2015 3rd QTR	BR 10	58	0.08	4.5	0.64
	BR 11	Dry	Dry	Dry	Dry		BR 11	29	0.22	4.3	0.62
2012 4th QTR	BR 10	35	0.35	2.8	1.04	2015 4th QTR	BR 10	40	0.7	5.8	0.75
	BR 11	32	0.35	2.8	1.03		BR 11	42	0.8	5.9	0.84
2016 1st QTR	BR10	34	0.96	3.2	0.6	2017 1st QTR	BR10	9	0.02	8.4	0.08
	BR11	38	0.9	2	0.61		BR11	36	<0.1	2.8	<0.01
2016 2nd QTR	BR10	39	0.25	3	0.16	2017 2nd QTR	BR10	39	1.6	4.3	0.59
	BR11	11	0.12	2.7	0.15		BR11	28	0.06	5.6	0.68
2016 3rd QTR	BR10	61	0.18	3.4	0.59	2017 3rd QTR	BR10	76	0.1	3	1.4
	BR11	44	0.15	2.7	0.54		BR11	83	0.15	6.9	1.74
2016 4th QTR	BR10	61	0.18	3.4	0.59	2017 4th QTR	BR10	<3	0.16	2.4	0.43
	BR11	44	0.15	2.7	0.54		BR11	<3	6.6	17.2	0.84

3.9.2 Ambient Groundwater Monitoring

Table 6 : Ambient Groundwater Monitoring results (2007-2017)

Date	Location Ref	Nitrate	Total Ammonia	F.COLI
1st Aug 2007	BW1	2.9	0.25	0
1st Aug 2007	BW2	2.7	0.24	0
7th May 2008	BW1	3.3	0.37	0
7th May 2008	BW2	2.3	0.64	0
23rd March 2009	BW1	1.4	0.1	0
2nd April 2009	BW2	2.9	0.1	0
17th August 2010	BW1	2.9	0.1	0
17th August 2010	BW2	3.1	0.1	0
5th October 2011	BW1	2.8	0.06	0
5th October 2011	BW2	2.9	0.06	0
12th December 2012	BW1	1.7	0.02	0
12th December 2012	BW2	3.2	0.06	0
10th October 2013	BW1	3.2	0	0
10th October 2013	BW2	2.6	0	0
12th December 2014	BW1	4.1	0.05	0
12th December 2014	BW2	3.4	0.3	0
8th June 2015	BW1	2.8	<0.02	0
8th June 2015	BW2	1.7	<0.02	0
23rd February 2016	BW1	2.3	0.01	0
23rd February 2016	BW2	3.9	0.03	0
1st August 2017	BW1	3.4	<0.1	<1
7th September 2017	BW2	1.7	<0.1	<1

3.9.3 Surface Water Discharge Monitoring

The surface water discharge points at the site are visually inspected weekly, (a copy of this register is included in Attachment 1), and sampled quarterly. Table 7 outlines the results of surface water discharge analyses.

Table 7 : Surface Water Discharge Analyses (2008 -2017)

Date	Monitoring Point Ref	COD mg/l 2008	COD mg/l 2009	COD mg/l 2010	COD mg/l 2011	COD mg/l 2012	COD mg/l 2013	COD mg/l 2014	COD mg/l 2015	COD mg/l 2016	COD mg/l 2017
1st QTR	BS1	27	<1.0	Dry	Dry	42	13	Dry	9	61	11
	BS2	8	<1.0	Dry	Dry	41	17	Dry	7	44	6
2nd QTR	BS1	1	>1	Dry	Dry	5	45	10	27	202	11
	BS2	1	>1	Dry	Dry	<1	46	7	31	<3	9
3rd QTR	BS1	22.5	>1	11	2	Dry	9	9	16	18	18
	BS2	21.5	>1	17	3	Dry	13	8	6	18	17
4th QTR	BS1	7	28	<1	<1	5	9	18	<3	<3	<3
	BS2	1	29	<1	3	12	13	<1	<3	<3	<3

4.0 Management of the Activity

4.1 Corrective Action Procedures

A copy of the Corrective Action Procedure for this site is included as Attachment No 3. There were no non-compliances issued in respect of this facility during this period.

4.2 Awareness and Training Programme

A copy of the awareness and training procedure for this site is included in Attachment 3.

4.3 Responsibilities

The organisational chart for the environmental management of the site is included in Attachment 4.

The process of transferring the license from the deceased Mr. Maurice O'Brien to his wife Mrs. Mairead O'Brien and son Mr. Philip O'Brien is still ongoing. The application has been completed by Mairead and Philip O'Brien and is currently with the Agency for processing.

4.4 Communications

A copy of the Public Information Programme for this site is included in Attachment 3.

4.5 Vermin Control

Vermin control is carried out on site by staff. A register is maintained of these inspections. A copy of this register is available on site for inspection.

4.6 Notification Procedures

A copy of Notification Procedures for this site is included in Attachment 3.

5.0 Tanks and Pipeline Testing and Inspection Report

A tank pipeline inspection report was submitted to the Agency on the 3rd March 2010. The inspection of all storage tanks on site was possible due to the de-stock and re-stock programme undertaken on site in 2009.

Signed:



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Date: 30.3.18

Attachment No. 1

Surface Water Discharge Monitoring

STORM WATER INSPECTIONS 2017				
<i>No.</i>	<i>Date</i>	<i>Clean</i>	<i>Clear</i>	<i>Comment</i>
BS1	02/01/2017	Clean	Clear	Low Flow
BS2	02/01/2017	Clean	Clear	Low Flow
BS1	09/01/2017	Clean	Clear	Low Flow
BS2	09/01/2017	Clean	Clear	Low Flow
BS1	16/01/2017	Clean	Clear	Low Flow
BS2	16/01/2017	Clean	Clear	Low Flow
BS1	23/01/2017	Clean	Clear	Low Flow
BS2	23/01/2017	Clean	Clear	Low Flow
BS1	30/01/2017	Clean	Clear	Low Flow
BS2	30/01/2017	Clean	Clear	Low Flow
BS1	06/02/2017	Clean	Clear	Low Flow
BS2	06/02/2017	Clean	Clear	Low Flow
BS1	13/02/2017	Clean	Clear	Low Flow
BS2	13/02/2017	Clean	Clear	Low Flow
BS1	20/02/2017	Clean	Clear	Low Flow
BS2	20/02/2017	Clean	Clear	Low Flow
BS1	27/02/2017	Clean	Clear	No Flow
BS2	27/02/2017	Clean	Clear	No Flow
BS1	06/03/2017	Clean	Clear	No Flow
BS2	06/03/2017	Clean	Clear	No Flow
BS1	13/03/2017	Clean	Clear	Low Flow
BS2	13/03/2017	Clean	Clear	Low Flow
BS1	20/03/2017	Clean	Clear	Low Flow
BS2	20/03/2017	Clean	Clear	Low Flow
BS1	27/03/2017	Clean	Clear	Low Flow
BS2	27/03/2017	Clean	Clear	Low Flow
BS1	03/04/2017	Clean	Clear	No Flow
BS2	03/04/2017	Clean	Clear	No Flow
BS1	10/04/2017	Clean	Clear	Low Flow
BS2	10/04/2017	Clean	Clear	Low Flow
BS1	17/04/2017	Clean	Clear	High Flow
BS2	17/04/2017	Clean	Clear	High Flow
BS1	24/04/2017	Clean	Clear	Low Flow
BS2	24/04/2017	Clean	Clear	Low Flow
BS1	02/05/2017	Clean	Clear	No Flow
BS2	02/05/2017	Clean	Clear	No Flow
BS1	08/05/2017	Clean	Clear	Low Flow
BS2	08/05/2017	Clean	Clear	Low Flow
BS1	15/05/2017	Clean	Clear	Low Flow
BS2	22/05/2017	Clean	Clear	Low Flow
BS1	22/05/2017	Clean	Clear	Low Flow
BS2	22/05/2017	Clean	Clear	Low Flow
BS1	29/05/2017	Clean	Clear	Low Flow
BS2	29/05/2017	Clean	Clear	Low Flow
BS1	06/06/2017	Clean	Clear	Good Flow/High
BS2	06/06/2017	Clean	Clear	Good Flow/High
BS1	12/06/2017	Clean	Clear	Low Flow
BS2	12/06/2017	Clean	Clear	Low Flow
BS1	19/06/2017	Clean	Clear	No Flow
BS2	19/06/2017	Clean	Clear	No Flow
BS1	26/06/2017	Clean	Clear	No Flow
BS2	26/06/2017	Clean	Clear	No Flow

<i>BS1</i>	03/07/2017	Clean	Clear	No Flow
<i>BS2</i>	03/07/2017	Clean	Clear	No Flow
<i>BS1</i>	10/07/2017	Clean	Clear	No Flow
<i>BS2</i>	10/07/2017	Clean	Clear	No Flow
<i>BS1</i>	11/07/2017	Clean	Clear	Flow
<i>BS2</i>	11/07/2017	Clean	Clear	Flow
<i>BS1</i>	17/07/2017	Clean	Clear	Flow
<i>BS2</i>	17/07/2017	Clean	Clear	Flow
<i>BS1</i>	24/07/2017	Clean	Clear	Low Flow
<i>BS2</i>	24/07/2017	Clean	Clear	Low Flow
<i>BS1</i>	31/07/2017	Clean	Clear	Low Flow
<i>BS2</i>	31/07/2017	Clean	Clear	Low Flow
<i>BS1</i>	08/08/2017	Clean	Clear	Low Flow
<i>BS2</i>	08/08/2017	Clean	Clear	Low Flow
<i>BS1</i>	15/08/2017	Clean	Clear	Low Flow
<i>BS2</i>	15/08/2017	Clean	Clear	Low Flow
<i>BS1</i>	21/08/2017	Clean	Clear	Low Flow
<i>BS2</i>	21/08/2017	Clean	Clear	Low Flow
<i>BS1</i>	28/08/2017	Clean	Clear	Low Flow
<i>BS2</i>	28/08/2017	Clean	Clear	Low Flow
<i>BS1</i>	05/09/2017	Clean	Clear	Low Flow
<i>BS2</i>	05/09/2007	Clean	Clear	Low Flow
<i>BS1</i>	12/09/2017	Clean	Clear	Flow
<i>BS2</i>	12/09/2017	Clean	Clear	Flow
<i>BS1</i>	19/09/2017	Clean	Clear	Low Flow
<i>BS2</i>	19/09/2017	Clean	Clear	Low Flow
<i>BS1</i>	25/09/2017	Clean	Clear	Flow
<i>BS2</i>	25/09/2017	Clean	Clear	Flow
<i>BS1</i>	02/10/2017	Clean	Clear	Flow
<i>BS2</i>	02/10/2017	Clean	Clear	Flow
<i>BS1</i>	09/10/2017	Clean	Clear	Low Flow
<i>BS2</i>	09/10/2017	Clean	Clear	Low Flow
<i>BS1</i>	16/10/2017	Clean	Clear	Low Flow
<i>BS2</i>	16/10/2017	Clean	Clear	Low Flow
<i>BS1</i>	23/10/2017	Clean	Clear	Low Flow
<i>BS2</i>	23/10/2017	Clean	Clear	Low Flow
<i>BS1</i>	30/10/2017	Clean	Clear	Flow
<i>BS2</i>	30/10/2017	Clean	Clear	Low Flow
<i>BS1</i>	06/11/2017	Clean	Clear	Flow
<i>BS2</i>	06/11/2017	Clean	Clear	Flow
<i>BS1</i>	13/11/2017	Clean	Clear	Low Flow
<i>BS2</i>	13/11/2017	Clean	Clear	Low Flow
<i>BS1</i>	20/11/2017	Clean	Clear	Low Flow
<i>BS2</i>	20/11/2017	Clean	Clear	Low Flow
<i>BS1</i>	27/11/2017	Clean	Clear	Low Flow
<i>BS2</i>	27/11/2017	Clean	Clear	Low Flow
<i>BS1</i>	04/12/2017	Clean	Clear	Low Flow
<i>BS2</i>	04/12/2017	Clean	Clear	Low Flow

Attachment No. 2 Waste Management Records

Waste Management Record – Carcasses (2017)

WASTE:		ANIMAL CARCASSES (Code No 02 01 02)
CONTRACTOR:		Wm. Fitzgerald, Kilmager, Fermoy. Co Cork
DESTINATION:		Waterford Proteins, Christendom, Ferrybank, Waterford.
DATE	Weight -Ton	COLLECTED BY
03/01/17	2.14	Gerry Murphy
09/01/17	3.54	Gerry Murphy
16/01/17	3.34	Gerry Murphy
23/01/17	3.62	Gerry Murphy
30/01/17	2.78	Gerry Murphy
06/02/17	3.42	Gerry Murphy
13/02/17	3.14	Gerry Murphy
20/02/17	3.7	Gerry Murphy
27/02/17	3.04	Gerry Murphy
06/03/17	3.32	Gerry Murphy
13/03/17	3.86	Gerry Murphy
20/03/17	3.8	Gerry Murphy
27/03/17	4.1	Gerry Murphy
03/04/17	4.43	Gerry Murphy
10/04/17	5.44	Gerry Murphy
18/04/17	3.76	Gerry Murphy
20/04/17	1.44	Gerry Murphy
24/04/17	3.76	Gerry Murphy
02/05/17	5.14	Gerry Murphy
08/05/17	3.9	Gerry Murphy
15/05/17	4.52	Gerry Murphy
22/05/17	2.94	Gerry Murphy
29/05/17	1.9	Gerry Murphy
06/06/17	3.06	Gerry Murphy
12/06/17	2.42	Gerry Murphy
19/06/17	3.3	Gerry Murphy
19/06/17	1.0	Gerry Murphy
22/06/17	1.46	Gerry Murphy
26/06/17	3.08	Gerry Murphy
10/07/17	2.66	Gerry Murphy
13/07/17	1.08	Gerry Murphy
17/07/17	2.14	Gerry Murphy
24/07/17	1.42	Gerry Murphy
27/07/17	1.58	Gerry Murphy
31/07/17	1.9	Gerry Murphy
08/08/17	2.26	Gerry Murphy
14/08/17	2.88	Gerry Murphy
28/08/17	1.04	Gerry Murphy
04/09/17	2.74	Gerry Murphy
04/09/17	0.68	Gerry Murphy
11/09/17	2.36	Gerry Murphy
18/09/17	2.74	Gerry Murphy
09/10/17	1.86	Gerry Murphy
17/10/17	3.28	Gerry Murphy
23/10/17	3.82	Gerry Murphy
31/10/17	1.9	Gerry Murphy
06/11/17	1.98	Gerry Murphy
13/11/17	2.16	Gerry Murphy
20/11/17	1.54	Gerry Murphy
24/11/17	1.22	Gerry Murphy
30/11/17	2.34	Gerry Murphy
04/12/17	1.28	Gerry Murphy
11/12/17	2.82	Gerry Murphy
18/12/18	3.24	Gerry Murphy
21/12/18	1.94	Gerry Murphy
28/12/18	2.62	Gerry Murphy
Total	152.83	

Waste Management Record – Cardboard & Paper (2017)

WASTE:	PAPER AND CARDBOARD	
CONTRACTOR:	COUNTRY CLEAN (BINS) / WASTE RECOVERY SERVICES (SKIPS)	
DESTINATION:	CORK CO. COUNCIL LAND-FILL	
DATE	VOLUME (K)	DELIVERED BY
03-Jan-17	100	Country Clean
17-Jan-17	100	Country Clean
31-Jan-17	100	Country Clean
14-Feb-17	100	Country Clean
28-Feb-17	100	Country Clean
14-Mar-17	100	Country Clean
28-Mar-17	100	Country Clean
11-Apr-17	100	Country Clean
25-Apr-17	100	Country Clean
09-May-17	100	Country Clean
23-May-17	100	Country Clean
06-Jun-17	100	Country Clean
20-Jun-17	100	Country Clean
04-Jul-17	100	Country Clean
18-Jul-17	100	Country Clean
01-Aug-17	100	Country Clean
15-Aug-17	100	Country Clean
29-Aug-17	100	Country Clean
12-Sep-17	100	Country Clean
26-Sep-17	100	Country Clean
10-Oct-17	100	Country Clean
24-Oct-17	100	Country Clean
07-Nov-17	100	Country Clean
21-Nov-17	100	Country Clean
05-Dec-17	100	Country Clean
19-Dec-17	100	Country Clean
27-Dec-17	100	Country Clean
2 Skips during 2017	12 (T)	Waste Recovery Services
TOTAL	14.2 (T)	

Waste Management Record – Veterinary (2017)

WASTE:	VETERINARY WASTE (Code No 18 02 01)	
CONTRACTOR:	HEALTHCARE INITIAL	
DESTINATION:	STERILE TECHNOLOGIES IRL	
DATE	VOLUME	COLLECTED BY
14/08/2017	60L	SRCL - Ian Farrell

Corrective Action Procedure

In the event of a reported non-conformity, responsibility and authority for initiating further investigation and corrective action shall follow the following steps:

- Determine the reasons why the specified requirements were not met
- Draw up a plan of action to correct non-conformity with the specified requirements
- Implement preventative actions to a level corresponding to the risk encountered
- Apply control measures to ensure that corrective actions are taken and that they are effective.
- Implement and record any changes in procedures resulting from corrective actions
- Provide appropriate training or retraining as may be necessary.

Report on Emergency Incidents

As part of IPC License Register number P0396-01 there is a requirement to inform the Agency of the following:

- Incidents that may affect the normal operation of the activity and which may create an environmental risk.
- Emergency situations that develop on site.
- Malfunction of any continuous monitors.
- Any malfunction or breakdown of control equipment or monitoring equipment.
- Any release to atmosphere or emission that does not comply with the requirement of the license.

Date of Incident: _____

Time of Incident: _____

IPC Register Number: _____

Location: _____

Licensee: _____

Description of Incident:

Description of Action Taken:

Authorities Contacted:

Signed: _____

Emergency Response Procedure

In the event of any emergency situation developing on site which may create an environmental risk, make contact and notify the following:

Environmental Protection Agency

Phone: 021-4875540 Fax 021-4875545
Outside of Office Hours Phone 1890335599

Cork County Council

Phone: 022-21123 Fax: 022-21983

Southern Regional Fisheries Board

Phone 052-23624 Fax 052-80055

If excavating machinery is required

Thomas Finn Phone: 086-3400369

If slurry tankers are required

Philip O'Brien: 086-8237676
Thomas Finn: 086-3400369

If structural damage has occurred

Thomas Finn: 086-3400369
Philip O'Brien: 086-8237676

Ventilation system

Thomas Finn: 086-3400369
James McNamara: 086 8584545
IDS Noel Cooney 0502-21224

Fire Brigade: 999

Garda: 025-84823

Public Information Programme

Condition No 2.4.1, of IPC License Reg No. P0396-01 states that “the licensee shall put in place a programme to ensure that members of the public can obtain information concerning the environmental performance of the license at all reasonable times”.

O'Brien Enterprises is committed to ensuring that members of the public have access to all relevant documentation, during reasonable working hours. However, because of disease control measures, an appointment must be made by contacting 025-84990.

The following documentation is available to members of the public, in the unit office, at all reasonable times:

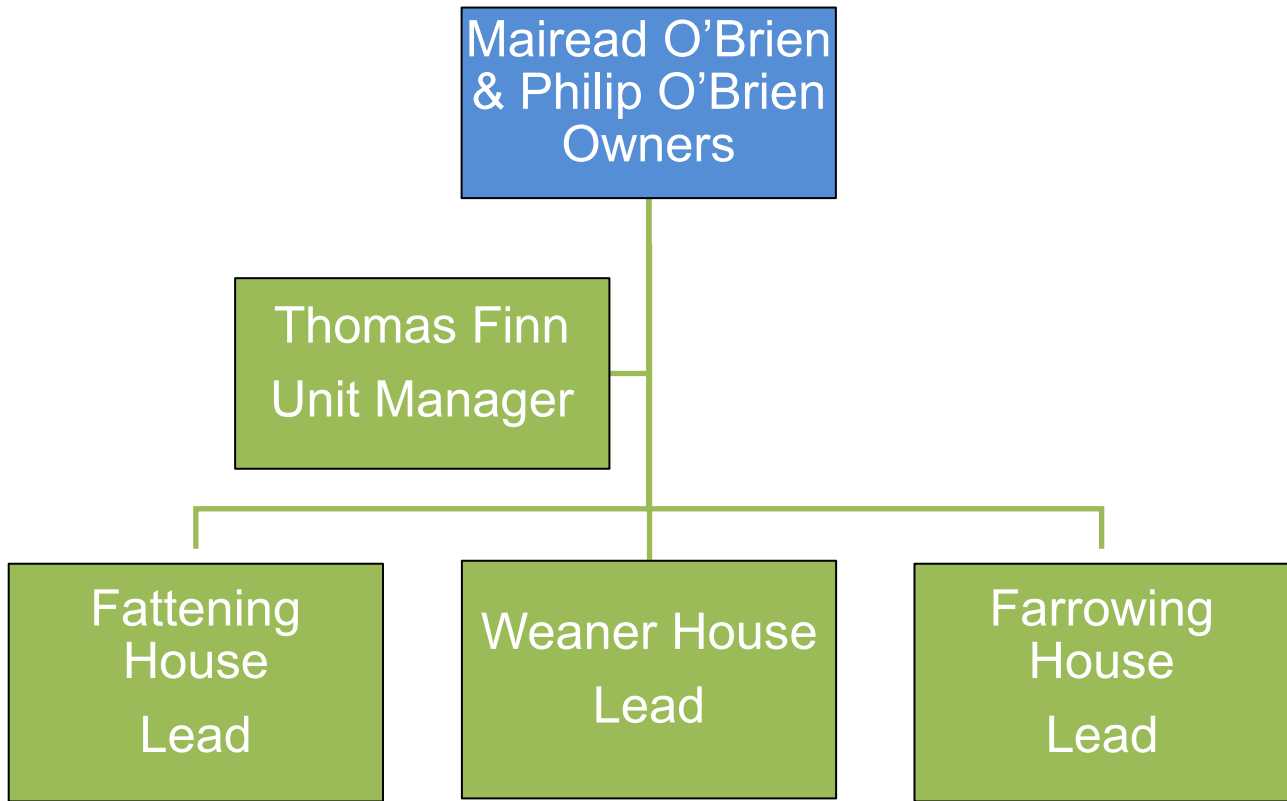
1. IPC License application submitted to the Agency
2. All correspondence with the Environmental Protection Agency prior to the issue of the License.
3. All correspondence with, and reports sent to the agency, since the License was issued.
4. Pig manure storage capacity information
5. Complaints register
6. All relevant waste registers maintained on file

Note: All Site visitors must sign the “Visitors Register”

Environmental Training Procedure

- The Licensee is responsible for ensuring that all environmental training is carried out.
- Appropriate training records are kept for each employee.
- These records are regularly updated.
- All new employees whose job have a direct influence on the environment receive training on the commencement of employment.
- Outside contractors involved in pig manure management are regularly checked by the licensee to ensure proper training has been received, and a copy of the code of practice for land spreading of organic manure is being kept on equipment.

Attachment No. 4
Organisational Chart



Annual Environmental Report: Summary of Emissions and Waste Transfers
Intensive Agriculture Emissions Calculation Tool for AER / PRTR Reporting Version 1.3 2016

CALCULATION OF THE SURFACE AREA OF STORAGE UNITS

The calculation of emissions is based on the Surface Area in square metres (m²) of each outdoor uncovered slurry storage tank

This tool allows you to calculate the surface area of both circular and rectangular tanks:

1 Circular Tank

data entry:		
Unit number	Enter Diameter of the tank in metres:	Surface Area m ² Circular Tank
Slurry storage 1		0
Slurry storage 2		0
Slurry storage 3		0
Slurry storage 4		0
Slurry storage 5		0
Slurry storage 6		0
Slurry storage 7		0
Slurry storage 8		0
Slurry storage 9		0
Slurry storage 10		0
Total:		0

Example:

For a circular storage tank of Diameter 30 metres:

Unit number	Enter Diameter of the tank in metres:	Surface Area m ² Circular Tank
Slurry storage 1	30	707

2 Rectangular Tank

data entry: data entry:			
Unit number	Enter Length of the tank in metres:	Enter Width of the tank in metres:	Surface Area m ² Rectangular Tank
Slurry storage 1	17.25	14.6	251.85
Slurry storage 2	0	0	0
Slurry storage 3			0
Slurry storage 4			0
Slurry storage 5			0
Slurry storage 6			0
Slurry storage 7			0
Slurry storage 8			0
Slurry storage 9			0
Slurry storage 10			0
Total:			251.85

Example:

For a rectangular storage tank of Length 30 metres and Width 20 metres:

Unit number	Enter Length of the tank in metres:	Enter Width of the tank in metres:	Surface Area m ² Rectangular Tank
Slurry storage 1	30	20	600

Annual Environmental Report: Summary of Emissions and Waste Transfers

Intensive Agriculture Emissions Calculation Tool for AER / PRTR Reporting Version 1.3 2016

Data Entry and Calculation Output Sheet

Facility Name:	Mr Maurice O'Brien		
Licence Reg. No.:	P0396-01	Reporting year:	2017

Data Entry Table: Pig Farms

Input (in the yellow boxes) the annual average number of animals

- Note: the animal number for each class of swine (weaners; finishers; boars; etc) should be the average number in the facility over the 12 month period and should accord with your stocking register for the year.
- Stock counts on a monthly basis can be added and the total divided by 12 for each animal class.
- If stock counts are only available for lesser frequencies, i.e quarterly, then the average of these counts should be used to give the annual stock figures

HOUSING

Enter PIG NUMBERS in each class:

Class	data entry: Pig Number / year
Suckling sow+litter	523
Dry sow	1,723
Boars	11
Maiden gilts	232
Weaners (7 to 35 kg)	7,093
Finishers (35 to 98 kg)	10,265

STORAGE

Enter surface area of OUTDOOR UNCOVERED STORAGE
(see Surface Area Calculation for a simple tool for this purpose)

Unit number	data entry: Surface Area m ²
Slurry storage 1	251.125
Slurry storage 2	
Slurry storage 3	
Slurry storage 4	
Others	
Total	251.125

FORM OF MANURE STORAGE

Enter the form of Manure Storage

Does the facility employ:	data entry: Enter Yes in appropriate box:
Liquid Manure Storage:	YES
Solid Manure storage:	

(Note: the default assumption is Liquid Storage)

Data Output Table Pig Farms

- The following table provides the output data in the appropriate format for reporting via the "Releases to Air" Worksheet of the EPA Electronic AER Reporting Workbook
- The information must be entered manually; do NOT attempt to use the Cut or Copy methods for this task.
- All housing and storage emissions should be entered as Fugitive Emissions

RELEASES TO AIR								
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Used		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
06	Ammonia (NH3)	C	OTH	EPA Calculation tool	0	42,994.4	0	42,994.4
01	Methane (CH4)	C	OTH	EPA Calculation tool	0	252,753.5	0	252,753.5
05	Nitrous oxide (N2O)	C	OTH	EPA Calculation tool	0	256.1	0	256.1

For info only:

Reportable to European PRTR Website?
Yes
Yes
No