

Queally Pig Slaughtering Ltd. t/a Dawn Pork & Bacon IPPCL Reg. No. P0175-02

Integrated Pollution Prevention and Control (IPPC)/Waste Licensing

Review Formen and Guidance

for the purposes of

EC Environmental Objectives (Surface Waters) Regulations 2009

EPA Reg. Nº: (Office use only)

Environmental Protection Agency P.O. Box 3000, Johnstown Castle Estate, Co. Wexford Lo Call: 1890 335599 Telephone: 053-9160600 Fax: 053-9160699 Web: <u>www.epa.ie</u> Email: info@epa.ie

INTRODUCTION

This Form is for the purposes of a review of an IPPC/Waste Licence in order to ensure that all authorisations under the *EPA Act 1992 to 2007* and the *Waste Management Acts 1996 to 2010* having discharges liable to cause water pollution are in compliance with the *EC Environmental Objectives (Surface Waters) Regulations 2009*.

While every effort has been made to ensure the accuracy of the material contained in the Review Form, the EPA assumes no responsibility and gives no guarantees, undertakings and warranties concerning the accuracy, completeness or up-to-date nature of the information provided herein and does not accept any liability whatsoever arising from any errors or omissions.

The Review Form and all supporting information shall be submitted to the Headquarters of the Agency in a format of a signed original, one hardcopy and two copies on CD-Rom. In cases where an Environmental Impact Statement (EIS) is required in support of the Review Form, a signed original, one hardcopy plus 16 copies (or 18 copies if the activity is within Energy sector) on CD-Rom shall be submitted.

All pages, including maps/drawings/plans, shall be no¹⁰ larger than A3 size. All files on CD-Rom shall be submitted in searchable PDF format and be no larger than 10MB each in size. All CD-Roms shall be labelled with the Licensee's name, Licence Register Number, address of the percention of the file (i.e. Review Form).

CONTENTS

SECTION A: GENERAL	1
SECTION B: EMISSIONS	
SECTION C: CONTROL & MONITORING	
SECTION D: EXISTING ENVIRONMENT &	IMPACT OF THE
ACTIVITY	6
SECTION E: STATUTORY REQUIREMENTS	5 8
SECTION F: APPROVED ADJUSTMENTS &	CONDITIONS 9
SECTION G: DECLARATION	

1
1

Consent of copyright owner required for any other use.

SECTION A: GENERAL

A.1 Licensee

Name*:	Queally Pig Slaughtering Limited
Address:	Grannagh,
	Co. Kilkenny
Tel:	051-870210
Fax:	051-850783
e-mail:	jday@dawnpork.com

* This should be the name of the Licensee which is current on the date this IPPC/Waste Licence Review Form is lodged with the Agency. It should be the name of the legal entity (which can be a limited company or a sole trader). A trading/business name is not acceptable.

Name and Address for Correspondence

Only documentation submitted by the Licensee and by the nominated person will be deemed to have come from the Licensee.

Name:	Queally Pig Slaughtering	g Limited 🔬
Address:	Grannagh,	and the
	Co. Kilkenny	A. SOF
		out att
		os el to
Tel:	051-870210	DUITCHIT
Fax:	051-850783	tonette
e-mail:	jday@dawnpork.com	Ser Ont

Address of registered or principal office of Body Corporate (if applicable)

Address:	Queally Pig Slaughtering Limited t/a Dawn Pork & Bacon
	Grannagh
	Co.Kilkenny
Company	117855
Register	
No.	
Tel:	051-870210
Fax:	051-850783
e-mail:	jday@dawnpork.com

A.2 Location of Activity

Name:	Queally Pig Slaughtering Limited			
Address*:	Grannagh,			
	Co. Kilkenny			
Tel:	051-870210			
Fax:	051-850783			
Contact Name:	Joanne Day			
Position:	Quality & Environmental Manager			
e-mail:	jday@dawnpork.com			

* Include any townland.

National Grid Reference	156853E, 114430N
(12 digit 6E,6N)	

Location maps (no larger than A3), appropriately scaled, with legible grid references should be enclosed in **Attachment** $\mathbb{N}^{\underline{o}}$ **A.2**. The site boundary must be outlined on the map in red colour.

Geo-referenced digital drawing files (e.g. AutoCAD files) in Irish Grid projection of the site boundary and overall site plan, including labelled emission points to surface water and their monitoring and sampling locations, are also required.

Consent of copyright owned required to and

SECTION B: EMISSIONS

B.1 Emissions to Surface Waters

Describe the nature of emissions from the activity to receiving surface waters. Specify which of these emissions are process discharges and storm/surface water discharges.

Tables B.1(i) and B.1(ii) should be completed.

The applicant should address in particular any emission point where the substances listed in the Schedule of S.I. No. 394 of 2004 are emitted.

Please note that monitoring of the discharge(s) for the purposes of Table B.1(ii) shall be undertaken for the list of parameters listed in Table D.1(i) as appropriate. Where other relevant substances have been identified, during the Assessment of Impact on Receiving Surface Water requested under Section D.1 of this Review Form, monitoring of the discharge upstream and downstream for the relevant parameters shall also be included.

A summary list of the emission points, together with maps/drawings (no larger than A3) and supporting documentation should be included as **Attachment N^o B.1**.

B.2 Tabular Data on Emission Points to surface water

Licensees should submit the following information for each emission point to surface water:

Point Code	Easting	Northing	Verified	Emission
Provide label ID's (e.g. SW1, SW2*)	6E-digit GPS Irish National Grid Reference	6N-digit GPS ^T Irish National Grid Reference	Y = GPS used N = GPS not used	e.g. Ammonia (as N), Biochemical oxygen demand

* SW = Surface Water

An individual record (i.e. row) is required for each emission point. Acceptable file formats include Excel, Access or other upon agreement with the Agency.

SECTION C: CONTROL & MONITORING

Describe the proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the installation/facility.

C.1 Treatment, Abatement and Control Systems

An overview/summary of treatment/abatement systems for effluent emissions should be included together with schematics as appropriate.

For each Surface Water Emission Point identified complete Table C.1(i).

Supporting information should form **Attachment N^o C.1**.

Normal operation and variations for start-up and shutdown should be described. Anticipated malfunctions and known problems associated with the treatment should be highlighted.

Proposed monitoring to be undertaken for influent(s) to treatment plant, and intreatment monitoring required for the management of the treatment plant should be detailed.

C.2 Monitoring and Sampling Points

Identify monitoring and sampling points and outline proposals for monitoring emissions to surface water bodies.

Table C.2(i) should be completed (where relevant) for emissions to surface water.

Where ambient environment monitoring scarried out or proposed, Table C.2(ii) should be completed as relevant for each environmental medium and at least 12 samples should be taken at regular intervals.

Include details of monitoring/sampling locations and methods.

Supporting information should form **Attachment N^o C.2**.

C.3 Tabular Data on Monitoring and Sampling Points

Licensees should submit the following information for each monitoring and sampling point:

Point Code	Point Type	Easting	Northing	Verified	Pollutant
Provide label ID's	M=Monitori ng S=Sampling	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used	e.g. Ammonia (as N), Biochemical oxygen demand

An individual record (i.e. row) is required for each monitoring and sampling point. Acceptable file formats include Excel, Access or other upon agreement with the Agency.

Point source monitoring/sampling refers to monitoring from specific emission points (e.g. from a wastewater treatment plant). Ambient monitoring includes monitoring of river quality upstream/downstream of an effluent discharge.

Consent of copyright owner required for any other use.

SECTION D: EXISTING ENVIRONMENT & IMPACT OF THE ACTIVITY

D.1 Assessment of Impact on Receiving Surface Water

Describe the existing environment in terms of water quality with particular reference to environmental quality objectives and standards as specified in the *EC Environmental Objectives (Surface Waters) Regulations 2009 S.I. No. 272 of 2009.* Table D.1(i) should be completed as appropriate.

Indicate whether or not the activity complies with the requirements of the EC Environmental Objectives (Surface Waters) Regulations 2009 S.I. No. 272 of 2009.

The Licensee should conduct an assessment of impact of discharge(s) from the installation/facility on receiving surface water. In undertaking this assessment the Licensee shall have particular regard to substances used in the manufacturing processes likely to result in discharges. The licensee shall have regard for the environmental quality objectives and standards specified for protected areas and/or the standards specified in the Schedules of the *EC Environmental Objectives (Surface Waters) Regulations 2009 S.I. No. 272 of 2009.* When completing any assimilative capacity calculations have regard to the Water Services Training Group '*Guidance to Applicant – Discharge to Surface Waters'* available at http://www.wsntg.ie/publications/index.asp and other standard guidance.

If the process discharges are to coastal, transitional waters or lakes, the assessment may require a modelling study. The modelling study shall include estimates on what the resultant concentrations of the permitted substances in the receiving water body will be upon discharge at the current licence limits.

Regardless of the receiving water body type, determine the maximum allowable discharge concentrations to achieve compliance with the 95%ile good status limits. N.B. If the discharge is to a water body that is already achieving high status, or if the discharge is to waters draining to the surface water bodies identified under the First Schedule of the *EC Environmental Objectives (Freshwater Pearl Mussel) Regulations 2009*, compliance must be with 95%ile high status limits.

State distance from the process discharges to a nearest downstream water dependent Protected Area. Include the name and code of this Protected Area.

Full details of the assessment, including a copy of an Environmental Impact Statement if it was required for the purposes of obtaining planning permission(s), should be submitted as **Attachment N^o D.1.1**.

Where necessary, the Licensee should supply detailed information on the proposals to comply with the requirements of the *EC Environmental Objectives (Surface Waters) Regulations 2009 S.I. No. 272 of 2009* including a detailed timeframe for any proposed works in **Attachment N^o D.1.2**.

D.2 Environmental Considerations and Best Available Techniques (BAT)

Describe, in outline, the main alternatives, if any, to the proposals contained in the Review Form.

Describe any environmental considerations which were made with respect to the use of cleaner technologies, waste minimisation and raw material substitution.

Describe the measures proposed or in place to ensure that:

- (a) the best available techniques are or will be used to prevent or eliminate or, where that is not practicable, generally reduce an emission from the activity;
- (b) no significant pollution is caused;
- (c) waste production is avoided in accordance with *Council Directive 75/442/EEC of 15 July 1975 on waste*; where waste is produced, it is recovered or, where that is technically and economically impossible, it is disposed of while avoiding or reducing any impact on the environment;
- (d) energy and other resources are used efficiently;
- (e) the necessary measures are taken to prevent accidents and limit their consequences; and,
- (f) the necessary measures are taken upon definitive cessation of activities to avoid any pollution risk and return the site of operation to a satisfactory state.

This section should present a statement on energy efficiency at the site to include, where appropriate, an energy audit with reference to the *EPA Guidance document on Energy Audits*. Licensees should have regard to Section 5 of the *EPA Acts 1992 and 2003* in selecting BAT and in particular the following:

- The use of low-waste technology,
- The use of less hazardous substances;
- The furthering of recovery and recycling of substances generated and used in the process and of waste where appropriate;
- Comparable processes, facilities or methods of operation, which have been tried with success on an industrial scale;
- Technological advances and changes in scientific knowledge and understanding;
- The nature, effects and volume of the emissions concerned;
- The commissioning dates for new or existing facilities;
- The length of time needed to introduce the BAT;
- The consumption and nature of raw materials, including water, used in the process and their energy efficiency;
- The need to prevent or reduce to a minimum the overall impact of the emissions on the environment and the risks to it;
- The need to prevent accidents and to minimize the consequences for the Environment; and,
- The information published by the Agency in the form of sectoral BAT Guidance documents and the relevant BREF documents published by the EC (available for download at <u>http://eippcb.jrc.es/</u> and at <u>www.epa.ie</u>).

SECTION E: STATUTORY REQUIREMENTS

E.1 Best Environmental Practices – Compliance with Legislation

Demonstrate if the best environmental practices are in place for control of diffuse emissions from the installation/facility as set out in the following legislation:

- (a) a specification prepared by the Agency in accordance with Section 5 of the *Environmental Protection Agency Act 1992* as amended by Section 7 of the *Protection of the Environment Act 2003*;
- (b) the Urban Waste Water Treatment Regulations 2001 (S.I. No. 254 of 2001) as amended by the Urban Waste Water Treatment (Amendment) Regulations 2004 (S.I. No. 440 of 2004) or any future amendment thereof;
- (c) the European Communities (Good Agricultural Practice for Protection of Waters) Regulations 2009 (S.I. No. 101 of 2009) or any future amendment thereof;
- (d) the Local Government (Water Pollution) Act, 1977 (Control of Cadmium Discharges) Regulations 1985 (S.I. No. 294 of 1985);
- e) the Local Government (Water Pollution) گردt, 1977 (Control of Hexachlorocyclohexane and Mercury Discharges) Regulations 1986 (S.I. No. 55 of 1986);
- (f) the Local Government (Water Pollution) Acts, 1977 and 1990 (Control of Carbon Tetrachloride, DDT and Pentachlorophenol Discharges) Regulations 1994 (S.I. No. 43 of 1994); and
- (g) measures or controls identified in a pollution reduction plan for the river basin district prepared in accordance with Part V of the *EC Environmental Objectives (Surface Waters) Regulations 2009 S.I. No. 272 of 2009* for the reduction of pollution by priority substances or the ceasing or phasing out of emissions, discharges and losses of priority hazardous substances.

SECTION F: APPROVED ADJUSTMENTS & CONDITIONS

Where the Office of Environmental Enforcement (OEE) of the Agency has agreed any variations or adjustments to the conditions of the existing licence, the licensee must supply a schedule detailing these agreed variations and adjustments to the existing licence conditions. An updated, scaled drawing of the site layout (no larger than A3) providing visual information on such adjustments or variations where appropriate should be included.

In the case of once-off assessments/ reports required under conditions of the existing licence the licensee must supply a schedule detailing those assessments/ reports that have been completed and agreed with the Office of Environmental Enforcement (OEE) or as otherwise agreed.

Attachment N^o F1 shall include the schedule of variations and/or adjustments together with the updated drawing.

Condition No.	Existing Condition	Proposed Wording (where appropriate)	OEE Agreement Reference	Description
			at USC.	

Consent of constraint owner required for any other use.

SECTION G: DECLARATION

Declaration

I certify that the information given in this Review Form is truthful, accurate and complete.

I give consent to the EPA to copy this Review Form for its own use and to make it available for inspection and copying by the public, both in the form of paper files available for inspection at EPA and via the EPA's website. This consent relates to this Review Form itself and to any further information, submission, objection, or submission to an objection whether provided by me as Licensee, any person acting on the Licensee's behalf, or any other person.

Signed by: <u><i>llGanaher</i></u> Date: <u>27/09/11</u> (on behalf of the organisation)
Print signature name: ANNE-MARIE DAWAMER
Position in organisation: Environmental Technican (on behalf Tobay
oses all' and the company stamp or seal: Hanager
For inspection produce and a BACON GRANMAGH, Consent of copyright on the consent of copyright on the copyrig

ANNEX 1: TABLES/ATTACHMENTS

TABLE B.1(i): EMISSIONS TO SURFACE WATERS

(One page for each emission)

Emission Point:

Emission Point Ref. No.:	:	EW-1					
Source of Emission:		WWTP					
Location :		River Suir	-				
Grid Ref. (12 digit, 6E,6	5N):	E256851	N114197				
Name of receiving wate	rs:	River Suir	-				
Flow rate in receiving w	aters:				theruse	N/A	m ³ .sec ⁻¹ Dry Weather Flow
					anty any	277 (Tidal Waters)	m ³ .sec ⁻¹ 95%ile flow
Emission Details:							
(i) Volume to be er	nitted			pection	Net ro		
Normal/day		1400 m ³	Maximum/day	FOLIDIA			1800m ³
Maximum rate/hour		90m ³		ator			

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

C^o

Periods of Emission (avg)	60	min/hr	24	hr/day	365	day/yr
---------------------------	----	--------	----	--------	-----	--------

TABLE B.1(ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission (One table per emission point)

Emission Point Reference Number: EW1

Parameter		Prior to 1	treatment			% Efficiency			
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
рН	6-9				6-9 net 115				N/A
COD	6250	3435	6183	2256795	114: 100°	100	180	65700	97%
BOD	3170	1720	3096	1130040	edfor 40	40	72	26280	98%
Suspended Solids				The Purperty	60	60	108	39420	
Nitrates (as N)				epection net	20	20	36	13140	
Total Ammonia (as N)	300	165	297	01108405	10	10	18	6570	94%
Total Phosphorous (as P)	45	35	63	22995	2	2	3.6	1314	94%
Orthophosphate			Coll		1	1	1.8	657	
Detergents					5	5	9	3285	
Fats, Oils & Grease					15	15	27	9855	

TABLE C.1(i): ABATEMENT/TREATMENT CONTROL

Emission Point Reference Number: <u>EW-1</u>

Control ¹ parameter	Equipment ²	Equipment maintenance	Equipment calibration	Equipment back-up	Monitoring to be carried out ³	Monitoring equipment	Monitoring equipment calibration
Pre-Treatment: Fat, grease, suspended solids	Dissolved Air Flotation Unit	Maintenance as manufacturer specification	Calibration as manufacturer specification	Spares held on site or 12 hour order			
Balancing: Suspended Solids	Surface Aerator	Maintenance as manufacturer specification	Calibration as manufacturer specification	Spares held on site or 12 hour			
Balancing: Flow	Forward feed pumps	Maintenance as manufacturer specification	Calibration as un manufacturer ^{pure} specification and	Spares held on site or 12 hour order			
Aeration Stage: Dissolved Oxygen	Surface aerators	Maintenance as manufacturer specification	Calibration as manufacturer specification	Spares held on site or 12 hour order			
Clarification: Suspended solids	Scraper Mechanism	Maintenance as manufacturer specification	Galibration as manufacturer specification	Spares held on site or 12 hour order			
Clarification: Suspended solids	Sludge Return Pumps	Maintenance as manufacturer specification	Calibration as manufacturer specification	Spares held on site or 12 hour order			
Dewatering: Suspended solids	Belt Press	Maintenance as manufacturer specification	Calibration as manufacturer specification	Spares held on site or 12 hour order			

Control ¹ parameter	Equipment ²	Equipment maintenance	Equipment calibration	Equipment back-up	Monitoring to be carried out ³	Monitoring equipment	Monitoring equipment calibration
Dissolved Oxygen	Aerators	Routine Oil Change	<i>Maintenance and calibration as manufacturer specification</i>	Standby Motor	<i>Dissolved Oxygen (Aeration Basin)</i>	DO Meter/Recorder	<i>Check Before Use/ Manufacturer specification</i>
<i>Mixed Liquor Suspended Solids</i>	Belt Press	<i>Routine Oil Change</i>	Maintenance and calibration as manufacturer specification	Spares held on site or 12 hour order	Mixed Liquor Suspended Solids	<i>Settlement Cone</i>	None

¹ List the operating parameters of the treatment/abatement system which control its function. ² List the equipment necessary for the proper function of the abatement/treatment system. ³ List the monitoring of the control parameter to be carried out.

TABLE C.2(i): EMISSIONS MONITORING AND SAMPLING POINTS

(One table per monitoring point)

Emission Point Reference Number: <u>EW-1</u>

Parameter	Monitoring frequency	Accessibility of Sampling Points	Sampling method	Analysis method/ technique
		Designated Sampling	Flow Meter	On-line flow with
Outlet Flow	Continuous	Point		recorder
		Designated Sampling	pH Probe	pH electrode/meter and
pH	Continuous	Point		recorder
		Designated Sampling		
Temperature	Continuous	Point	10 ¹²	Thermometer
		Designated Sampling	Composite Sample	
COD	Daily	Point only any		Standard Methods
		Designated Sampling	Composite Sample	
Suspended Solids	Daily	Point unduite		Gravimetric
		Designated Sampling	Composite Sample	
Total Ammonia (an N)	Daily	Point periowne		Standard Methods
		Designated Sampling	Composite Sample	
BOD	Weekly	Point		Standard Methods
		Designated Sampling	Composite Sample	
Nitrates (as N)	Weekly	Point		Standard Methods
		Designated Sampling	Composite Sample	
Total Phosphorous (as P)	Weekly	Point		Standard Methods
		Designated Sampling	Composite Sample	
Oils, fats & greases	Monthly	Point		Standard Methods
		Designated Sampling	Composite Sample	
Detergents	Weekly	Point	- · ·	Standard Methods

Parameter	Monitoring frequency	Accessibility of Sampling Points	Sampling method	Analysis method/ technique
Conductivity	Continuous	Designated Sampling Point	Grab Sample	Conductivity Electrode
COD	Monthly	Designated Sampling Point	Grab Sample	Standard Methods
Total Ammonia	Quarterly	Designated Sampling Point	Grab Sample	Standard Methods
Suspended Solids	Quarterly	Designated Sampling Point	Grab Sample	Gravimetric
Chloride	Quarterly	Designated Sampling Point	Grab Sample	Standard Methods
Fats, Oils & Grease	Quarterly	Designated Sampling 57 Point	Grab Sample	Standard Methods
Visual Inspection	Weekly	Designated Sampling Point	Grab Sample	Not Applicable
		Consent of copyright out		

Monitoring Point Reference Number: River Suir U/S EW-1 Discharge

IPPC Licence P0175-02 does not require that ambient water quality sampling is undertaken.

For the purposes of this review therefore, the site is utilising water quality data from samples collected in 2011.

Parameter	Monitoring frequency	Accessibility of Sampling point	Sampling method	Analysis method/ technique					
Ammonia (as N) BOD Total Nitrogen (as N) Nitrate (as N) Total Phosphorus (as P) COD	As Required	Access from River Bank	Grab	Standard Methods					
Consent									

Table D.1(i) RECEIVING WATER SURFACE WATER QUALITY

Monitoring Point/Grid Reference: River Suir U/S EW-1 Discharge

Parameter		Results ¹ (mg/l)									Samplin g method (grab, drift etc.)	Normal Analyti cal Range	Analysis method/ technique	
	16/08/ 11	18/08/ 11	23/08/ 11	25/08/11	30/08/ 11	01/09/1 1	06/09 /11	08/09 /11	09/09/ 11	13/09 /11	15/09 /11			
рН	7.96	8.004	7.994	8.253	7.838	7.952			8			Grab		PH probe
Temperature			18.7	16.6	18.7	16.5		TUSC.	16.6	16.5		Grab		Thermome ter
Salinity	14.2	7.7	10.9	8.74	15.57	19.34	ally any	othe	9.3			Grab		Standard Methods
Total Ammonia	0.459	0.217	0.499	0.123	0.34	0.423	s of for		0.1			Grab		Standard Methods
Chemical oxygen demand	127	91.3	100	124	137	241 Pereo	¢.		52			Grab		Standard Methods
Biochemical oxygen demand	<2	2.83	<2	<2	<2 For	iiest2			1.8			Grab		Standard Methods
Dissolved oxygen DO					entorcon		7.72	6.62	7.71		6.79	Grab		Standard Methods
Total Nitrogen (as N)				(OUS							Grab		Standard Methods
Nitrite (as N)												Grab		Standard Methods
Nitrate (as N)	<0.3	0.804	<0.3		<0.3				1.4			Grab		Standard Methods
Total Phosphorous (as P)	0.218	0.415	0.158		0.224	0.181			0.1			Grab		Standard Methods
Orthophosphate (as P)	0.071	0.123	0.063		0.718		0.08 22		0.08			Grab		Standard Methods
Suspended Solids	154	158	131	71	111	215			41.4			Grab		Standard Methods
Detergents	0.409	0.254	0.588	0.416	0.673	0.698			<0.2			Grab		Standard Methods

¹ At least 12 samples should be taken at regular intervals.

Provide summary of the monitoring results

Consent of constraint on performance of the any other use.