

Declaration

The following Annual Environmental Report (AER) has been prepared by analysis of all monitoring data governed under IPPC Licence PO 175-02 for Queally Pig Slaughtering Ltd.

It has been prepared and reviewed with consultation of the Senior Management at Queally Pig Slaughtering Ltd.

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.

Signature Joanne Day

Technical Manager

Date 16/7/2013

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1. Facility Information

Licence Register Number	PO 175-02
Name of site	Queally Pig Slaughtering t/a Dawn Pork and Bacon
Class of Activity	7.4.1 Operation of a slaughterhouse with a carcass production greater than 50 tonnes per day
RBME risk category	B3
National Grid Reference (6E, 6 N)	656853, 614430
Site Location	The facility at Grannagh is located on a site of approximately 30 acres on the main Waterford to Limerick Road, approximately 4 miles outside Waterford City. The River Suir is located to the east of the plant and runs into Waterford Harbour.
Site Description	<ul style="list-style-type: none"> ▪ Operations at Grannagh have the capacity to slaughter 10,000 pigs per week. ▪ In addition to slaughtering, there are facilities for cutting, boning, curing, chilling and freezing of pork and bacon products. ▪ Normal hours of production at the plant are 6.00am to 6.00pm, Monday to Friday. ▪ Cleaning operations, which are vital component of daily activity, continue until 11.00 p.m. ▪ The refrigeration plant operates continuously and controls the temperature of the chill rooms and the cold store. ▪ Groundwater is used as a water supply to the plant, with boreholes located off-site to the south east of the plant. ▪ The water is chlorinated, prior to on-site storage and use. ▪ The energy supply for the plant is derived from electricity, natural gas and oil combustion, with two hot water boilers and one heating boiler present on the site. ▪ Located onsite there is a waste water treatment plant operated as a activated sludge process.
Production	<ul style="list-style-type: none"> ▪ 489254 pigs slaughtered in 2011 ▪ 511,889 Pigs laughter in 2012 ▪ 4.4% production increase in 2012.

2.0 Summary water emission data

- Emission to water from EW 1

Parameter	Licence ELV	ELV Kg/Year	Kg/Year 2011 discharge	Kg/Year 2012 discharge
pH	6-9	-	-	-
Temperature	25°C	-	-	-
COD	100mg/l	65,700	31,607	23,924
BOD	40mg/l	26,280	5,176	2,411
Suspended Solids	60mg/l	39,420	6,670	4,354
Total N (as N)	25mg/l	16,425	-	2,133
Total Ammonia (as N)	10mg/l	6,570	1,649	1,642
Total Phosphorus (as P)	2mg/l	1,314	165	273
Orthophosphate (PO ₄ ³⁻)	1mg/l	657	499	362
Detergents	5mg/l	3,285	242	114
Oils, fats and Grease	15mg/l	9,855	1,832	1,991
Total Emissions			47,480	37,204

COMMENT: Overall in 2012 Queally Pig Slaughtering Ltd, performed well in the reduction of potential pollutant discharges in the total emissions to water from the onsite WWTP. We achieved a 20% reduction in emissions from EW1 in 2012 relative to 2011. As part of O&T for 2013, we plan to reduce this again by 5 % over 2012 total emissions. As can be seen from the table above we are also well within our licensed discharge limits.

-Emission to water from EW3- storm water discharge

<u>Parameter</u>	<u>Unit of measurement</u>	<u>Monitoring frequency</u>	<u>Average per month 2011</u>	<u>Average per month 2012</u>
pH	-	Monthly	-	-
Conductivity	mS/cm	Continuous	-	-
COD	mg/L	Monthly	17.2	21
Suspended Solids	mg/L	Quarterly	3.25	6
Total Ammonia (as N)	mg/L	Quarterly	0.52	0.52
Oils, fats and Grease	mg/L	Quarterly	<1	<1
Chloride	mg/L	Quarterly	29.7	30
Visual Inspection	-	Daily	Clear	Clear

COMMENT: Overall in 2012 surface water emission from EW3 remain similar to 2011.

-Groundwater monitoring

<u>Parameter</u>	<u>Unit of measurement</u>	<u>Monitoring frequency</u>	<u>2011</u>	<u>2012</u>
pH		Annual	7.09	7.16
TOC	ppm	Annual	1.53ppm	8.3
Nitrate	mg/L as N	Annual	7.04	6.85
Conductivity	uS/cm	Annual	759 @19.8°C	754@20.0°C
Orthophosphate	mg/L P	Annual	Not tested	ND<0.02
Total Ammonia	mg/L ammonia N	Annual	Not tested	ND<0.02
Total Nitrogen	mg/L N	Annual	Not tested	6.90

COMMENT: Groundwater measured parameters remained similar in 2011 and 2012. Licensed parameters were issued under revision 02 of IPPCL PO 175 in 2012, for this reason some parameters were not tested in 2011.

3.0 Summary Waste Data

- Waste removed off site for Recovery

<u>Waste Category</u>	<u>EWC</u>	<u>Tonnage per year 2011</u>	<u>Tonnage per year 2012</u>
Sludge	020204	4,919.00	5,123.92
ABP – Blood	020202	1,934.88	2,054.30
ABP – Cat 2	020202	956.78	423.72
ABP – Pet food	020202	698.06	684.62
ABP - Offal	020202	3,680.57	4,514.64
Packaging and Landfill waste	200101	124.60	142.16
Lamps	200121	0.166	0.18
Oil	110113	1.700	0.653
Paper	200101	-----	1.27
Total waste recovered/recycled		12,315	12,945.46

- Waste removed off site for disposal

<u>Waste Category</u>	<u>EWC</u>	<u>Tonnage per year 2011</u>	<u>Tonnage per year 2012</u>
Lab Waste	160506	0.052	0.092
Blades and knives	180202	-----	0.431
Total waste disposed		0.052	0.523

COMMENT: More details on waste generated and removed from Queally Pig Slaughtering Ltd. Site can be found in our PRTR data for 2012. This has been submitted to the EPA as per requirements. Increase in waste production is due to increase production in 2012 over 2011.

4.0 Resource use and energy management

<u>Resource</u>	<u>Unit of measurement</u>	<u>Total 2011 usage</u>	<u>Total 2012 usage</u>
Electricity	Watts	5,103,360	5,237,200
Water	Gallons	45,418,210	39,982,849
Gas	M ³	245,734	265,545
Oil	Litres	193,799	29,035
Total		50,961,103	45,514,629

5.0 Monitoring and compliance

<u>Monitoring parameter</u>	<u>Date</u>	<u>Outcome</u>	<u>Comment</u>
Unannounced EPA audit	10.07.2012	No non-conformance 4 Observations	Observations closed out as of year end 2012.
External complaints	N/A	N/A	N/A

COMMENT: Overall in 2012 there was a reduction in energy usage onsite. A 10% reduction in total energy usage was achieved in 2012 relative to 2011 energy usage figures. This is attributed to efficient water, electricity and gas management. Further reductions will be incurred in 2013 and areas where a potential reduction has been identified have been incorporated into O&T for 2013.

6.0 Environmental Management System

- EMS Documentation

<u>Document</u>	<u>Present</u>	<u>Comment</u>
Onsite EMS	✓	<ul style="list-style-type: none"> ▪ Includes procedures and records ▪ Available for site inspections
Significant Environmental aspects and associated impacts	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Public viewing of records	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Environmental Policy	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Objectives and targets	✓	<ul style="list-style-type: none"> ▪ Available for site inspections ▪ Included in the following pages Objectives and Targets for 2012 and proposed for 2013.
Environmental Management Program	✓	<ul style="list-style-type: none"> ▪ Full EMP available for site inspections ▪ Outline incorporated into O&T in the following pages
Daily/weekly/monthly monitoring results	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
External lab report for 2012 groundwater monitoring	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Waste records	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Training records	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Organisational structure	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Bund and pipeline integrity full report 2012	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
Noise survey full report 2012	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
2012 Boiler Efficiency Report	✓	<ul style="list-style-type: none"> ▪ Available for site inspections
ELRA/Decommissioning plan	✓	<ul style="list-style-type: none"> ▪ Available for site inspections

-2012 Objectives and Targets Status

DAWN PORK AND BACON ENVIRONMENTAL OBJECTIVES AND TARGETS 2012

Issued by: *Joanne Day* Anne-Marie Danaher

Approved by: *Joanne Day* Anne-Marie Danaher

DATE: 06.02.2012

DATE: 06.02.2012

REV: 07

REF: DERC 17

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DAWN PORK AND BACON

OBJECTIVE	EMP	Target	Completion date	Status	Responsibility	Indicator
Pollution Prevention		Comply with condition 6.2, 9.2.1, 9.1.4, 9.3, schedule 1(ii) and 1(i) IPPC license PO-175-01 To comply with condition 4.4.6 Operational control ISO 14001:2004 and to reduce effluent emissions on all licensed parameter by 5% over kg/year for 2011				
	EMP 01	Monthly/quarterly surface water monitoring to ensure there is no onsite contamination.	DEC 12	Complete	AMD	Report
	EMP 02	Waste water effluent inspection and adjustment of operational parameters to ensure optimum efficiency of WWTP	DEC 12	Complete	AMD	Report
	EMP 03	Complete groundwater analysis to ensure there is no onsite contamination to ground water.	End Mar -11	Complete	AMD/Sarah	Report
	EMP 04	Equipment calibration to ensure all WWTP parameters are monitored inline and accurately.	DEC 12	Complete	AMD/J Day	Report
	EMP 10	Implementation of IPPC License PO175-02 to comply with EC (Environmental Objectives) Surface water Regulations 2009.	DEC 12	Complete	Senior Mgt/AMD	Records/ Procedures
	EMP 11	Bund and tank Integrity testing to ensure all bunds and tanks are impervious and there is No contamination from these sources.	Dec 2012	Complete	A. Wall/J Day	Report
	EMP 08	To comply with condition 5.2 of IPPC License PO 175-01. To comply with condition 4.4.6 Operational control ISO 14001:2004 and to reduce oil usage by 90% on 2011 figures				
	EMP 06	Financial Investment	DEC 12	Complete	J. Day/ J.Reilly	Visual
	EMP 12	Boiler efficiency testing to ensure optimum efficiency of boilers	DEC 12	Complete	A. Wall/J Day	Report
	Waste Management		Reduce the use of oil as a fuel source (90% reduction expected)	Quarter 1, 2012	Complete	A. Wall/J Day
		To comply with condition 2.6 and schedule 2(iii) waste analysis IPPC license PO-175-01 and to reduce oil disposal by 90% on 2011 figures				
EMP 05	Waste sludge analysis, to ensure no waste is sent off site contaminated	June 12/Dec 12	Complete	AMD/W. Norris	Report	
EMP 12	Reduce amount of oil sent off site as waste (90% reduction expected)	On-going	Complete	A. Wall/J Day	Visual/Records	

DAWN PORK AND BACON ENVIRONMENTAL OBJECTIVES AND TARGETS 2012

Issued by: Anne-Marie Danaher

DATE: 06.02.2012

Approved by Joanne Day

DATE: 06.02.2012

REF: DERC 17

REV: 07

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DAWN PORK AND BACON

<u>OBJECTIVE</u>	<u>EMP</u>	<u>Target</u>	<u>Completion date</u>	<u>Status</u>	<u>Responsibility</u>	<u>Indicator</u>
Create Environmental awareness		To comply with condition 2.6 IPPC license PO 175-01 To comply with condition 4.4.2 Competence training and awareness ISO 14001:2004				
	EMP 09	Train employees on environmental issues	DEC 12	Complete	AMD/Joanne Day	Record
Odour Management		Implement control measures for odour management				
	EMP 07	Odour audit to monitor if any odours are generated from the process and eliminate them if they occur.	ongoing	Complete	AMD/J. Day/A. Wall	Record
		To ensure that a review of noise sources is carried out in accordance with Condition 8.3 of IPPC Licence P0175-01.				
Noise Management	EMP 13	Noise Survey and implement corrective action as/if required	May 2012	Complete	AMD/J.Day	Report

-2013 Objectives and Targets (Proposed)

DAWN PORK AND BACON ENVIRONMENTAL OBJECTIVES AND TARGETS 2013

Issued by: Anne-Marie Danaher  DATE: 15.02.2013

Approved by: Joanne Day  DATE: 15.02.2013

REF: DERC 17 REV: 08 PAGE 1 OF 2



OBJECTIVE	EMP	Target	Completion date	Status	Responsibility	Indicator
Pollution Prevention	Comply with conditions 3.8, 5 and 6 of IPPC License PO 175-02 and to comply with condition 4.4.6 Operational control ISO 14001:2004 and to reduced effluent emissions on all licensed parameter by 5% over kg/year for 2012					
	EMP 01	Monthly/quarterly surface water monitoring to ensure there is no onsite contamination.	DEC 13	On-going	Environmental technician	Report
	EMP 02	Waste water effluent inspection and adjustment of operational parameters to ensure optimum efficiency of WWTP	DEC 13	On-going	Environmental technician	Report
	EMP 03	Complete groundwater analysis to ensure there is no onsite contamination to ground water.	End Mar -13	Pending	Environmental technician	Report
	EMP 04	Equipment calibration to ensure all WWTP parameters are monitored inline and accurately.	DEC 13	Pending	Environmental technician /J Day	Report
	EMP 05	Installation of oil separator in car park	July 13	Pending	A. Wall/J Day	Visual
	EMP 06	Preparation of PRTR	March 13	Pending	J. Day	Report
	EMP 07	Investigate the use of UV treatment for final effluent to comply with condition 6.18 of IPPCL	Oct 13	Pending	J. Day	Report/visual
EMP 08	Waste sludge analysis, to ensure no waste is sent off site contaminated	June 13/Dec 13	On-going	Environmental technician /W. Norris	Report	
Reduce contribution to global warming and help achieve Ireland GHG emission reduction.	To comply with condition 7 and condition C.4 of IPPC License PO 175-02. To comply with condition 4.4.6 Operational control ISO 14001:2004					
	EMP 09	Financial Investment	DEC 13	On-going	J. Day/ J. Reilly	Visual
	EMP 10	Boiler efficiency testing to ensure optimum efficiency of boilers	DEC 13	Pending	A. Wall/J Day	Report
	EMP 11	Reduce the use of water on site in process	DEC 13	On-going	A. Wall/J Day	Visual
	EMP 12	Undertake an energy efficiency audit	April 13	Pending	A. Wall/J Day	Report
	EMP 13	Conduct an assessment on the use of raw materials and identify areas for improvement to comply with condition 7.4 of IPPC License PO 75-02.	October 13	Pending	J. Day	Report
EMP 14	Preparation of ELRA/Decommissioning plan	March 13	Pending	J. Day/External Consultants	Report	

DAWN PORK AND BACON ENVIRONMENTAL OBJECTIVES AND TARGETS 2013

Issued by: Anne-Marie Danaher

adnanaher

DATE: 15.02.2013

Approved by: Joanne Day

Joanne Day

DATE: 15.02.2013

REF: DERC 17

REV: 08

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DAWN PORK AND BACON

OBJECTIVE	EMP	Target	Completion date	Status	Responsibility	Indicator
Training	To Comply with condition 2.2.2.6 of IPPC Licence PO 175-02					
	EMP 15	Train employees on environmental issues	DEC 13	Complete	Environmental technician /Joanne Day	Record
Odour Management	Implement control measures for odour management					
	EMP 16	Odour audit to monitor if any odours are generated from the process and eliminate them if they occur.	ongoing	Complete	Environmental technician /J. Day/A. Wall	Record
Water Conservation	To comply with condition 7 of IPPC Licence PO 175-02 Resource use					
	EMP 17	Implementation of water regulation on production lines and machinery when not in use	Ongoing 2013-2014	ongoing	A. Wall/J Day	Report

Appendix 1:

Bund and Pipeline Testing Report Summary

1. Introduction

The client has an IPPC Licence and is obliged to bund hazardous liquids and is required to demonstrate that bunds on site are of adequate size and construction to perform their intended purpose and are assessed as being water tight.

Determination of whether a bund is of adequate size and construction is by reference to the EPA Guidance Note on Storage and Transfer of Materials for Scheduled Activities. To prove water tightness the EPA guidance document allows two types of assessment, a Water Retention Test or, where a Water Retention Test is not practical, a visual inspection by a Chartered Engineer. The EPA guidance note allows the supervising engineer to select a suitable Water Retention Test methodology and CIRIA 163 has been chosen as being acceptable.

2. Summary

The assessment was carried out on Saturday 1 December 2012 as this was a day of no production. The results are tabulated below.

Table 2-1 Summary bund inspection

Description	Adequate size	Suitable construction	Water Tightness Test or Assessment Method	Water Tightness Test or Assessment Result
Boiler Oil Tank Bund	Pass	Pass	Water integrity	Pass
Plastic bund (single IBC) Irish Casings	Pass	Pass	Water integrity	Pass
Plastic bund (double IBC) Irish Casings	Pass	Pass	Water integrity	Pass
Pipeline	Pass	Pass	Water integrity	Pass
CL1000 Bund	Pass	Pass	Water integrity	Pass
Sump from main sludge line	Pass	Pass	Water integrity	Pass
De-watering sump	Pass	Pass	Water integrity	Pass
Blood Storage Tank Bund	Pass	Pass	Visual	Pass
Irish Casings bund	Pass	Pass	Visual	Pass

Visual inspections were carried out by Bob Sutcliffe, CEng, MIEI, Chartered Engineer, IEI member number 420240.

Bund integrity report comment: Failure of bund and repair work carried out

11. Blood storage Tank Bund

11.1 Capacity

Contents	Blood
Largest tank	22,500 litre
Total tank capacity	22,500 litre
Required bund capacity	24.8 m ³
Actual bund capacity	27.0 m ³
Status	Pass

11.2 Construction

Construction	Reinforced mass concrete
Status	Pass

11.3 Defects or practicalities preventing a Water Retention Test

No water retention test is possible as there are low lying motors. A visual inspection is therefore required.

11.4 Test or assessment

A visual inspection was carried out by a Chartered Engineer. A number of defects were noted. These defects were cracks in the base that may cause a loss of secondary containment. Following the inspection, these cracks have been repaired as shown in the photographs.

11.5 Recommended remedial action

None.

Appendix 2:

Noise Survey Report summary

Executive Summary

In accordance with the requirements of Condition 6.13 of Integrated Pollution Prevention & Control (IPPC) Licence Register No. P0175-02, issued to Queally Pig Slaughtering Ltd. (trading as Dawn Pork and Bacon (DP&B)), Grannagh Industrial Estate, Co. Kilkenny, a noise survey of the site operations was undertaken on the 21st-22nd of May, 2012.

Schedule B.4 of the site's IPPC licence give day and night time noise limits at any noise sensitive locations in the vicinity of the site as follows:

- Day time $L_{Aeq, 30mins}$ 55dB(A)
- Night time $L_{Aeq, 30mins}$ 45dB(A)

Furthermore, the license specifies that there should be no clearly audible tonal component or impulsive component in the noise emissions from the activity at any noise sensitive location as a result of onsite activities. In further qualifying the license conditions, the new NG4 EPA Guidance specifies that no tone should be clearly audible or measurable.

The methodology followed was in accordance with the recommendation of the International Standards Organisation Documents: ISO 1996-1:2003, ISO 1996-2:2007, and the EPA Guidance Note for Noise (NG4) published in 2012.

Monitoring was carried out around the facility boundary and at three nearby noise sensitive locations (NSLs) located approx. 750m and 515m south west of the facility and 236m west of the facility. Day time noise monitoring took place at 7 boundary monitoring locations and at the three NSLs. Night time monitoring took place at 4 of these locations, to ensure accurate representation of the on-site noise sources at night time and at the three NSLs. The survey locations utilised around the boundary correspond to the initial baseline and subsequent surveys completed to date. Frequency analysis was carried out at all locations (boundary and NSLs) during both day and night time periods.

Overall, the results of the noise survey undertaken at DP&B conclude that noise emissions arising from licensed activities at the facility do not have an adverse impact on the nearby noise sensitive receptors.

Therefore it can be concluded that DP&B are in compliance with Schedule B of their IPPC licence P0175-02 and that there are no significant impacts on noise sensitive receptors as a result of operations at the site.

Appendix 3:

Boiler Efficiency Report Summary

Three boilers on site all serviced in March 2012 all boilers passed inspection full report available for site inspections

Appendix 4:

PRTR Submission 2012



Environmental Protection Agency

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

26/2/2013 16:22

Version 1.1.15

REFERENCE YEAR	2012
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1. FACILITY IDENTIFICATION

Parent Company Name	Queally Pig Slaughtering Limited
Facility Name	Queally Pig Slaughtering Limited
PRTR Identification Number	P0175
Licence Number	P0175-02

Waste or IPPC Classes of Activity

No.	class_name
7.4.1	The operation of slaughterhouses with a carcass production capacity greater than 50 tonnes per day

Address 1	Grannagh
Address 2	Co. Kilkenny
Address 3	
Address 4	
	Waterford
Country	Ireland
Coordinates of Location	-7.16672 52.2776
River Basin District	IESE
NACE Code	1011
Main Economic Activity	Processing and preserving of meat
AER Returns Contact Name	Joanne Day
AER Returns Contact Email Address	jday@dawnpork.com
AER Returns Contact Position	Technical Manager
AER Returns Contact Telephone Number	051870210
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	270
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
8(a)	Slaughterhouses

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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4.2 RELEASES TO WATERS

[Link to previous year's emissions data](#)

[PRTR# : P0175 | Facility Name : Queally Pig Slaughtering Limited | Licence : PRTR Data 2012.xls | Return Year : 2012]

26/02/2013 16:23

Data on ambient monitoring of stormwater, water or groundwater, described as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this is on

Please enter all quantities in this section in KGs

No. Annex II	POLLUTANT	Name	M/C/E	Method Code	Method Used Designation or Description	QUANTITY		
						Emission Point 1	T (Total) KG/Year	F (Fugitive) KG/Year
						0.0	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

RELEASES TO WATERS								
No. Annex II	POLLUTANT	Name	M/C/E	Method Code	Method Used Designation or Description	QUANTITY		
						Emission Point 1	T (Total) KG/Year	F (Fugitive) KG/Year
						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)

RELEASES TO WATERS								
Pollutant No.	POLLUTANT	Name	M/C/E	Method Code	Method Used Designation or Description	QUANTITY		
						Emission Point 1	T (Total) KG/Year	F (Fugitive) KG/Year
238	Ammonia (as N)		M	CRM	Method Colormetric method Hach Lange Nessler standard method for waste water analysis	1643.0	1643.0	0.0
303	BOD		M	CRM	Adopted from standard methods for waste water analysis, 5 day test Reactor	2411.0	2411.0	0.0
236	COD		M	CRM	Digestion/colorimetric analysis HACH	23924.0	23924.0	0.0
308	Detergents (as MBAS)		M	CRM	Anionic surfactant as MBAS	115.0	115.0	0.0
314	Fats, Oils and Greases		M	CRM	Solvent extraction method PhosVer3 phosphate method, Hach Colormetric method	1991.0	1991.0	0.0
337	Ortho-phosphate (as P)		M	CRM	Filtration method	119.0	119.0	0.0
240	Suspended Solids		M	CRM		4355.0	4355.0	0.0
352	Mercury (Elemental)		M	CRM	Test N° Tube Hach Method	2133.0	2133.0	0.0

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE PRTR: P0175 | Facility Name: Oueally Pig Slaughtering Limited | Filename: PRTR Data 2012.xls | Return Year: 2012
Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	M	Method Used		Location of Treatment	Haz Waste: Name and Licence/Permit No of Next Destination Facility Licence/Permit No of Receiver/Disposer	Haz Waste: Address of Next Destination Facility Licence/Permit No of Receiver/Disposer	Name and Licence / Permit No. and Address of Final Receiver / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination (i.e. Final Receiver/ Disposal Site) (HAZARDOUS WASTE ONLY)
							W/C/E	Method Used					
Within the Country	02 02 02	No	423.72	Animal tissue waste CAT 2	R3	M	Weighted	Offsite in Ireland	Dublin By-products Ltd RS10 Premier Proteins ID3 Cahir, O.D. Tipperary, Ireland	Hillballyhaunis, Mayo, O. Ireland			
Within the Country	02 02 02	No	684.62	Animal Tissue waste Lungs and Liver	R3	M	Weighted	Offsite in Ireland	Dawn County Meats Ltd Western Proteins F0048-02	Hillballyhaunis, Mayo, O. Ireland			
Within the Country	02 02 02	No	4514.64	Animal Tissue waste Offal	R3	M	Weighted	Offsite in Ireland	2 Silverwood Industrial Estate, Craughon, O. Armagh BT65 6LN, United Kingdom				
To Other Countries	02 02 02	No	2054.3	animal-tissue waste blood	R3	M	Weighted	Abroad	APC Technologies, DAFF AB AgriLife Ltd, WCPNk/217(a)/08	Tourin, Cappoquin, Waterford, O. Ireland			
Within the Country	02 02 04	No	5123.92	sludges from on-site effluent treatment	R10	M	Weighted	Offsite in Ireland					
To Other Countries	11 01 13	Yes	0.653	degreasing wastes containing dangerous substances	R13	M	Weighted	Abroad	Safet Kleen Ireland, WCP-DC-09-1223-01 Waste Licence, W0099-1	Unit 5, Ailton Road, Tallaght, Dublin, Ireland	Solvent Resource Management Ltd, TP32/SF, Weoland road, Knottingly, West Yorkshire, O. United Kingdom	Weoland road, Knottingly, West Yorkshire, O. United Kingdom	
To Other Countries	16 05 06	Yes	0.092	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	D10	M	Weighted	Abroad	Veolia Ltd, WCP-08-08-0578-01 Waste Licence, W0099-02	Corin, Fermoy, O. Cork, Ireland	Sava GmbH and Co. KG, A51, G09/008, Osterweide 1, 25541, Brunsbuttle, O. Germany	Osterweide 1, 25541, Brunsbuttle, O. Germany	
To Other Countries	20 01 01	No	142.16	Packaging waste and landfill waste	R5	M	Weighted	Abroad	GreenStar Ltd, WCP W0116-02	Six cross roads, Carriganard, Booterstown, Waterford, Ireland	Irish Lamp recycling LTD, Waste Permit 02/2000, Blackpark, Kilkenny road, Athy, Kildare, Ireland	Blackpark, Kilkenny road, Athy, Kildare, Ireland	
To Other Countries	20 01 21	Yes	0.18	fluorescent tubes and other mercury-containing waste	R5	M	Weighted	Abroad	Irish lamp recycling, WCPNk/030(a)/05 Waste permit 02/2000	Blackpark, Kilkenny road, Athy, Kildare, Ireland	Blackpark, Kilkenny road, Athy, Kildare, Ireland	Blackpark, Kilkenny road, Athy, Kildare, Ireland	
To Other Countries	19 02 02	Yes	0.431	wastes whose collection and disposal is subject to special requirements in order to prevent infection	D15	M	Weighted	Abroad	Sterile Technologies Ireland Limited, W0055-02	Units 420-430 Beech Road Western Industrial Estate Naas Road, Dublin 12, Dublin 12, Ireland	Ecosafe Systems, W0054-02 Unit 1A Allied Industrial Estate, Kylesmore Road, Dublin 10, Ireland	Unit 1A, Allied Industrial Estate, Kylesmore Road, Dublin 10, Ireland	
Within the Country	20 01 01	No	1,272	paper and cardboard	R5	M	Weighted	Offsite in Ireland	Pulp Recycling Ltd., DC-09-1218-01	Pulp Recycling Ltd, Unit 3 Riverside, Whitestown Business park, Dublin 24, Ireland			

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

Appendix 5:

Water Conservation Report

Table 1: Reduction in water usage on-site

<u>Water Source</u>	<u>2010</u> (Gallons used per pig processed)	<u>2011</u> (Gallons used per pig processed)	<u>2012</u> (Gallons used per pig processed)	<u>Comment</u> (Overall reduction 2010-2012)
Cold Water	121.42	92.81	78.11	40 %
Hot water	29.53	19.76	13.60	66 %

Table 2: Reduction in EW1 discharge volume

<u>Water Source</u>	<u>2010</u> (M ³ discharged)	<u>2011</u> (M ³ discharged)	<u>2012</u> (M ³ discharged)	<u>Comment</u> (Overall reduction 2010-2012)
Trade effluent discharged at EW1	555,895	458,075	441,650	22 %

To achieve the above reduction in water usage and subsequent discharge volume to the River Suir over the past three years the following measures were implemented at the Dawn Pork and Bacon facility:

- In 2011 the use of water metering onsite allowed for the monitoring and targeting of hot and cold water usage per pig processed, this data is consolidated on a central database.
- In 2012 our sterilizer system was upgraded, to switch from continuously heated water at 82°C to water heated as and when required.
- Audits are complete in production and storage areas that highlight leaks in sinks, piping or hoses.
- Employees are trained at induction and refresher training to report any water leaks that they notice to their line supervisor.
- Some treated waste water is recycled back into the treatment systems for use in other processes such as dewatering.
- By putting controls on water usage with feed back on lines so that when there is no product on the line/machines we will turn off water with electric valves, it is predicted that a further 10% reduction in water usage will be achieved 2013-2014.