

Site Visit Report

The site visit process is a sample on a particular day of an installation's compliance with some of its licence conditions. Where non-compliance against a particular condition has not been reported, this should not be construed to mean that there is full compliance with that condition of the licence.

Instructions and actions arising from the visit shall be addressed, or where applicable noted, by the licensee in order to ensure compliance, to improve the environmental performance of the installation and to provide clarification on certain issues.

The licensee shall take the actions specified to close out the non-compliances and observations raised in this Site Visit Report.

The licensee may also be requested to provide a response to the Environmental Protection Agency (hereafter referred to as the Agency) in relation to the site visit report findings.

Licensee	
Name of Installation	Future Pigs Limited
Licensee	Future Pigs Limited
Licence Register No.	P0420-03
CRO Number	118651
Site Address	Gorteen Lower, Nurney, Kildare
Site Visit Reference No.	SV27543

Report Detail	
Issue Date	04/04/2023
Prepared By	Lisa Maher

Site Visit Detail			
Date Of Inspection	22/02/2023		
Time In	10:00	Time Out	12:20
EPA Inspector(s)	Lisa Maher Ciaran Cuddihy		
Additional Visitors			
Licensee Personnel and Role	Paul Costello, Managing Director Patrick McAuliffe, Operations Manager Patrick O'Gorman, Assistant Operations Manager & Procurement Olive Hanlon, Farm Manager		

> Summary

Analysis of samples collected from a land drain at the boundary to the forested area at the piggery indicate the unauthorised discharge of polluting matter to waters.

In addition, analysis of samples taken from the receiving waterbody, the Kildoon River, show an increase in the concentrations for the parameters Ammonia, COD and Total Oxidised Nitrogen, downstream of the point where land drains associated with the forested area discharge to the Kildoon River when compared to the upstream sample.

> Site Areas Inspected

Samples were collected for analysis from a land drain at the boundary to the forested area at the piggery.

In addition, samples were collected from the Kildoon River at points upstream and downstream of where land drains associated with the forested area discharge to the river.

> Documents Inspected

No documents were inspected.

> 1. Site Specific Issues

		Answer	Condition Number	Non Compliance	Observation
1.1	Unauthorised discharge of polluting matter from the licensed activity to water	Yes	3.14.2, 5.1 & 6.15.6	Yes	
Comment / Action Required					

During a site visit on 16/02/2023, a land drain at the boundary to the forested area at the piggery was inspected. The drain was observed to contain black/grey liquid and brown solids and appeared stagnant in places. Two pipes were observed in and overhanging the land drain. A concrete pipe with the top of the pipe visible above brown solids in the land drain and a blue flexible pipe/hose overhanging the land drain.

EPA Inspectors returned to the site on 22/02/2023, to collect samples from this land drain.

The licensee subsequently confirmed that the concrete pipe carried yard washings from the Piggery to this land drain.

Laboratory analysis of the samples taken from the land drain on 22/02/2023 determined the following results:

L.Dr 1:

- 0.85 mg/l N of Ammonia;
- 1600 mg/l O₂ of BOD;
- 2990 mg/l O₂ of COD;
- 14 mg/l P of Ortho-phosphate;
- 14 mg/l P of Total Phosphorus; and
- 309.5 ug/l of Mineral Oil.

L.Dr 1a:

- 37 mg/l N of Ammonia;
- 34 mg/l O₂ of BOD;
- 123 mg/l O₂ of COD;
- 4 mg/l P of Ortho-phosphate;
- 5.2 mg/l P of Total Phosphorus; and
- 42.5 ug/l of Mineral Oil.

L.Dr 2:

- 31 mg/l N of Ammonia;
- 55 mg/l O₂ of BOD;
- 224 mg/l O₂ of COD;
- 4.5 mg/l P of Ortho-phosphate;
- 7 mg/l P of Total Phosphorus; and
- 88.4 ug/l of Mineral Oil.

L.Dr 3:

- 0.26 mg/l N of Ammonia.

These results are indicative of polluting matter being discharged to water in the receiving land drain. This land drain is not a licensed emission point authorised by the licence. On 22/02/2023, it was found that the water in part of the land drain (downstream of monitoring point L.Dr. 2) was discharging to ground within the forested area. Water was observed in the land drain again, both upstream and downstream of L.Dr. 3 which flows to the Kildoon river.

This is in non-compliance with condition 3.14.2, 5.1 and 6.15.6 whereby all soiled water was not diverted to onsite slurry/manure/digestate facilities and there was an unauthorised discharge of polluting matter to water.

Corrective Action Required:

The licensee shall respond to this matter via Compliance Investigation ref. CI002072.

1.2

	Answer	Condition Number	Non Compliance	Observation
Monitoring of the Receiving Waterbody (Kildoon River)	Checked			Yes
Comment / Action Required				

Samples were collected from the Kildoon River at points upstream and downstream of where land drains associated with the forested area discharge to the river. These locations were sampled to evaluate the potential impact to the receiving waterbody from the licensed activities.

Laboratory analysis of these samples collected on 22/02/2023 determined the following results:

- Ammonia mg/l N - Kildoon River (upstream) 0.17 & Kildoon River (downstream) 0.29;
- COD mg/l O₂ - Kildoon River (upstream) <20 & Kildoon River (downstream) 22; and
- Total Oxidised Nitrogen mg/l N - Kildoon River (upstream) 6.5 & Kildoon River (downstream) 6.8.

S.I. No. 77/2019 - EU Environmental Objectives (Surface Waters) (Amendment) Regulations 2019 set the following limit for Total Ammonia in a river water body: ≤ 0.065 mg/l N (mean) and ≤ 0.140 mg/l N (95%ile), which applies at the Kildoon River.

When upstream results are compared to downstream results an increase is noted in the concentration for the parameters Ammonia, COD and Total Oxidised Nitrogen.

Action Required:

The licensee shall respond to this matter via Compliance Investigation ref. CI002072.

EPA Laboratory Test Report

EPA Regional Inspectorate Dublin
McCumiskey House
Richview
Clonskeagh Road
Dublin 14

Final

Report To:	OEE Kilkenny Seville Lodge Callan Road Kilkenny	Project:	EPA-23-00400
		Report Number :	7277
		Entity:	P0420-03
		Location/Site:	Future Pigs Limited
		Site Visit Number:	SV27543

Sample Number: 23-03195
Sampling Point: MISC
Description: L.Dr 1

Sampled Date: 22/02/2023 10:45:00
Sampled By: L. Maher
Replicate / Split: None
Grab/Composite: Grab
Received in Lab: 22/02/2023

Sample Condition: Normal

Parameter	Result	Units	Limits	Measurement Uncertainty	Analysis Date	Lab	Method
Ammonia	0.85	mg/l N		24%	23/02/2023	DB	EPA_W07 *
BOD	1600	mg/l O2		28%	23/02/2023	DB	EPA_W04 *
COD	2990	mg/l O2		12%	23/02/2023	DB	EPA_W01 *
o-Phosphate	14	mg/l P		25%	23/02/2023	DB	EPA_W07 *
pH	7.0	pH units		0.3 pH units	23/02/2023	DB	EPA_W09 *
Total Oxidised Nitrogen	1.6	mg/l N		18%	23/02/2023	DB	EPA_W07 *
Total Phosphorus	14	mg/l P		23%	02/03/2023	KK	EPA_W06 *
Mineral Oils	309.5	µg/l			22/02/2023	Sub	

Comment:

Sample Number: 23-03196
Sampling Point: MISC
Description: L.Dr 1a

Sampled Date: 22/02/2023 10:56:00
Sampled By: L. Maher
Replicate / Split: None
Grab/Composite: Grab
Received in Lab: 22/02/2023

Sample Condition: Normal

Parameter	Result	Units	Limits	Measurement Uncertainty	Analysis Date	Lab	Method
Ammonia	37	mg/l N		24%	23/02/2023	DB	EPA_W07 *
BOD	34	mg/l O2		28%	23/02/2023	DB	EPA_W04 *
COD	123	mg/l O2		12%	23/02/2023	DB	EPA_W01 *
o-Phosphate	4.0	mg/l P		25%	23/02/2023	DB	EPA_W07 *
pH	7.5	pH units		0.3 pH units	23/02/2023	DB	EPA_W09 *
Total Oxidised Nitrogen	<0.2	mg/l N		18%	23/02/2023	DB	EPA_W07 *
Mineral Oils	42.5	µg/l			22/02/2023	Sub	
Total Phosphorus	5.2	mg/l P		23%	02/03/2023	KK	EPA_W06 *

Comment:

Sample Number: 23-03197
Sampling Point: MISC
Description: L.Dr 2

Sample Condition: Normal

Sampled Date: 22/02/2023 11:00:00
Sampled By: L. Maher
Replicate / Split: None
Grab/Composite: Grab
Received in Lab: 22/02/2023

Parameter	Result	Units	Limits	Measurement Uncertainty	Analysis Date	Lab	Method
Ammonia	31	mg/l N		24%	23/02/2023	DB	EPA_W07 *
BOD	55	mg/l O2		28%	23/02/2023	DB	EPA_W04 *
COD	224	mg/l O2		12%	23/02/2023	DB	EPA_W01 *
o-Phosphate	4.5	mg/l P		25%	23/02/2023	DB	EPA_W07 *
pH	7.5	pH units		0.3 pH units	23/02/2023	DB	EPA_W09 *
Total Oxidised Nitrogen	0.22	mg/l N		18%	23/02/2023	DB	EPA_W07 *
Mineral Oils	88.4	µg/l			22/02/2023	Sub	
Total Phosphorus	7.0	mg/l P		23%	02/03/2023	KK	EPA_W06 *

Comment:

Sample Number: 23-03198
Sampling Point: MISC
Description: Kildoon u/s

Sample Condition: Normal

Sampled Date: 22/02/2023 10:45:00
Sampled By: C. Cuddihy
Replicate / Split: None
Grab/Composite: Grab
Received in Lab: 22/02/2023

Parameter	Result	Units	Limits	Measurement Uncertainty	Analysis Date	Lab	Method
Ammonia	0.17	mg/l N		24%	23/02/2023	DB	EPA_W07 *
BOD	2.0	mg/l O2		28%	23/02/2023	DB	EPA_W04 *
COD	<20	mg/l O2		12%	23/02/2023	DB	EPA_W01 *
o-Phosphate	0.026	mg/l P		25%	23/02/2023	DB	EPA_W07 *
pH	8.1	pH units		0.3 pH units	23/02/2023	DB	EPA_W09 *
Total Oxidised Nitrogen	6.5	mg/l N		18%	23/02/2023	DB	EPA_W07 *
Mineral Oils	< 10.0	µg/l			22/02/2023	Sub	
Total Phosphorus	0.044	mg/l P		23%	02/03/2023	KK	EPA_W06 *

Comment:

Sample Number: 23-03199
Sampling Point: MISC
Description: Kildoon d/s

Sampled Date: 22/02/2023 10:52:00
Sampled By: C. Cuddihy
Replicate / Split: None
Grab/Composite: Grab
Received in Lab: 22/02/2023

Sample Condition: Normal

Parameter	Result	Units	Limits	Measurement Uncertainty	Analysis Date	Lab	Method
Ammonia	0.29	mg/l N		24%	23/02/2023	DB	EPA_W07 *
BOD	1.9	mg/l O2		28%	23/02/2023	DB	EPA_W04 *
COD	22.0	mg/l O2		12%	23/02/2023	DB	EPA_W01 *
o-Phosphate	0.024	mg/l P		25%	23/02/2023	DB	EPA_W07 *
pH	8.1	pH units		0.3 pH units	23/02/2023	DB	EPA_W09 *
Total Oxidised Nitrogen	6.8	mg/l N		18%	23/02/2023	DB	EPA_W07 *
Total Phosphorus	0.041	mg/l P		23%	02/03/2023	KK	EPA_W06 *
Mineral Oils	< 10.0	µg/l			22/02/2023	Sub	

Comment:

Sample Number: 23-03200
Sampling Point: MISC
Description: L.Dr 3

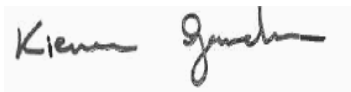
Sample Condition: Normal

Sampled Date: 22/02/2023 11:02:00
Sampled By: C. Cuddihy
Replicate / Split: None
Grab/Composite: Grab
Received in Lab: 22/02/2023

Parameter	Result	Units	Limits	Measurement Uncertainty	Analysis Date	Lab	Method
Ammonia	0.26	mg/l N		24%	23/02/2023	DB	EPA_W07 *
BOD	<1	mg/l O2		28%	23/02/2023	DB	EPA_W04 *
COD	<20	mg/l O2		12%	23/02/2023	DB	EPA_W01 *
o-Phosphate	0.011	mg/l P		25%	23/02/2023	DB	EPA_W07 *
pH	7.5	pH units		0.3 pH units	23/02/2023	DB	EPA_W09 *
Total Oxidised Nitrogen	9.1	mg/l N		18%	23/02/2023	DB	EPA_W07 *
Mineral Oils	< 10.0	µg/l			22/02/2023	Sub	
Total Phosphorus	0.027	mg/l P		23%	02/03/2023	KK	EPA_W06 *

Comment:

Report Approved By:



Kieran Gordon - Chemist

Results in bold are outside specified limits, not taking account of measurement uncertainty. * Indicates accredited method. nm = not measured, nr = not reported, vob = visible on bottom. The temperature reading of a **composite** sample is provided to allow the interpretation of the field pH result only.

Field Measurements are performed on the date of sampling. Results relate only to the item tested as received.

This test report shall not be reproduced except in full without approval of the laboratory.



Sampling Locations – 22/02/2023



FOLLOW-UP ACTIONS

The licensee is required to complete the actions outlined in this site visit report within the specified timeframes. Where required, the licensee shall also respond to actions specified in Compliance Investigations and/or submit a response to this site visit report via the EDEN system. The licensee shall maintain a documentary evidence, for review by the Agency, that the prescribed actions were completed within the required timeframe.

(i) Compliance Investigations

The Agency may generate a Compliance Investigation through the EDEN system and issue instructions and actions to the licensee. The licensee will receive notification when an instruction or action is issued and the licensee must respond to the actions within the Compliance Investigation within the specified timeframe.

(ii) Response to Site Visit Report

Where the licensee is requested to (or wishes to) respond to the Agency in relation to this site visit report, the licensee may select the 'Make a Response' link on the actions taken by the licensee to address the issues raised in this site visit report and the target completion dates. This Licensee Public Response provides the licensee with an opportunity to inform both the Agency and the public about the implementing of actions set out in the Agency site visit report. The response must be submitted **within 30 calendar days** of the issue date of this site visit report.

(iii) Publication of Reports

The site visit report will be made available for public viewing via the Agency's Licence Enforcement Access Portal (LEAP), within one day of the issue date. The Site Visit Report and the Licensee Public Response will also be published on the Agency's website, www.epa.ie, 60 calendar days after the site visit report issue date (on the Licence Details Page for the relevant licence).

Please note that licensees are required to comply with the conditions of the licence at all times, and where non-compliance occurs, compliance must be restored within the shortest possible time. These actions will be verified during subsequent Agency visits. Please quote the above Inspection Reference Number in any correspondence in relation this Report.