

Waste Water Discharge Licence Audit Report

The audit is a random sample on a particular day of a facility's operation and environmental performance. Lack of reporting of an area or issue should not be construed to mean that this area is fully satisfactory.

Name of Installation	Carlanstown
Licensee	Irish Water
Licence Register No.	D0488-01
Site Address	Meath
Site Visit Reference No.	SV03235
Issue Date	12/01/2016
Prepared By	Joseph Casey

Site Visit Detail

Date Of Inspection	03/12/2015	Announced		No	
Time In	09:30	Time Out		10:05	
Agency Personnel On Site	Joseph Casey				
Licensee Personnel and Role	Peter McNulty - IW Paul Donlon, David Byrne, Kealon McMorland				
Photo Taken	Yes	Samples Taken	Yes	Video Taken	No
Weather Conditions	Wet/Rain				
Weather Conditions Over 24 Hours	Wet/Rain				

> 1. Changes/Alterations

	Question	Answer
1.1	Has there been any alteration to the plant since the last site inspection that is likely to result in a significant change in the quality/quantity of the discharge?	Yes
	Comment	
	New timeout for blowers - on the hour. Adjusted ferric dosing point.	
1.2	Have there been any significant changes to the overall loading of the plant since the agglomeration was licensed or the last site inspection?	No

> 2. Flow Meter (Primary Discharge)

	Question	Answer
2.1	Is there a continuous flow meter in place at the primary discharge?	No
2.2	Is there a continuous flow recorder in place?	Not Applicable
2.3	Is the flow meter operating as per the WWD licence requirements?	Not Applicable
2.4	Is the flow meter calibrated and within the calibration date?	Not Applicable
2.5	Are the calibration records for the flow meter available for review?	Not Applicable
2.6	Is the flow meter maintained?	Not Applicable
2.7	Are the maintenance records for the flow meter available for review?	Not Applicable

> 3. Composite Sampler (Primary Discharge)

	Question	Answer
3.1	Is there a 24hr composite sampler available for compliance monitoring at the primary discharge?	No
3.2	Is the composite sampler operating as per the license requirements?	Not Applicable
3.3	Is the composite sampler maintained?	Not Applicable

3.4	Are the maintenance records for the composite sampler available for review?	Not Applicable
3.5	Are all samples (used to determine compliance with the license), taken and analysed from a composite sampler?	No
Comment		
Grabs taken instead.		

> 4. Control & Monitoring

	Question	Answer
4.1	Are sampling, analyses and measurements of the waste water discharges being undertaken in accordance with the requirements of the licence? (see Schedule A of licence)	Yes
4.2	Are the discharge monitoring records available for review?	Yes
4.3	Is monitoring of the influent stream being undertaken to measure mass loadings and removal efficiencies?	Yes
4.4	Are the influent monitoring records available for review?	Yes
4.5	Is there an established Data Management System in place?	Yes
4.6	Is there a maintenance programme in place for plant and equipment?	Yes
4.7	Is there a process control monitoring programme in place for the waste water works to ensure that it is being operated to meet the WWDL criteria?	Yes
4.8	Have the key parameters to monitor been identified at this waste water treatment works, to ensure that it meets the WWDL criteria?	Yes
4.9	Are there records to confirm that this monitoring and testing is being undertaken regularly?	Yes
4.10	Have any modifications or changes to the operation, maintenance or management of the waste water treatment works been undertaken after evaluation of data, from the process control monitoring programme?	Yes

> 5. Improvements, Discharges & Storm Water Overflows

	Question	Answer
5.1	Have discharges ceased from the points identified in the licence as discharges to be discontinued?, where the time specified in Schedule A of the licence has passed?	Not Applicable
5.2	Have specified improvement works identified in Schedule C of the licence been completed, where the time specified in Schedule C of the licence has passed?	Not Applicable
5.3	Has the Storm Water Overflow Identification and visit assessment been completed, where the time specified in the licence has passed?	Not Applicable

> 6. Notifications, Records and Reports

	Question	Answer
6.1	Since the last site visit, have all discharges from the waste water works complied with the Emission Limit Values, as set out in Schedule A of the licence (subject to the requirements of Condition 2 of the licence)?	No
6.2	Have there been any notifiable incidents since the last WWDL inspection, apart from those reported to the EPA?	No
6.3	Is there a record of incidents including all corrective actions taken to manage, minimise and avoid recurrence?	Yes
6.4	Have there been any complaints received of an environmental nature related to the discharge to water?	No
6.5	Are details of the any such complaints received recorded?	Not Applicable
6.6	Is there a documented Emergency Response Procedure in place?	Yes
6.7	If there is an Emergency Response Procedure in place, can Irish Water confirm that it covers the entire agglomeration?	Yes
6.8	Is there a Public Awareness & Communications Programme in place?	Yes

> 7. TPEFF2300D0488SW001: Primary Discharge, Receiving Water & Observations

Name:	TPEFF2300D0488SW001	Type:	Primary Discharge Point
Easting:	276742	Northing:	279164
Sample Taken:	Yes	Split Sample Offered:	Yes
Floc Present:	No	Sample Compliant?:	Yes

Sample Colour:	Clear	Sample Code:	
Sample Type:	Grab	Time Taken:	09:50
Sample Comment:			

	Question	Answer
7.1	Is the discharge monitoring point clearly labelled?	No
	Comment Currently a project in place at Meath Co Co to label all primary discharges that are not currently labelled - Paul Donlon	
7.2	Is there safe and permanent access to the sampling point?	Yes
7.3	Was there evidence of gross solids or litter in the discharge?	No
7.4	Was there evidence of gross solids or litter in the receiving water associated with the discharge resulting in an impairment of, or an interference with, amenities or the environment?	No
7.5	Has the Irish Water representative been informed of the observations made while on site?	Yes

Test Report

Report of: Effluent Analysis
Report to: Office of Environmental Enforcement, EPA.
Report date: 21/12/15

Organisation Name: Irish Water
Colvill House, 24-26 Talbot Street, Dublin 1
Reg No: D0488-01

Sampling location: DL-D0488-01, Carlanstown D0488-01
Duplicate sample: Yes
Date collected: 03/12/2015
Grab / Composite: Grab
Date received: 03/12/2015

Laboratory Ref: Type of sample: Sampling point: Sampled by: Time Sampled: Start/End - Dates of Analysis: Status of results:			1546403 Discharge License Carlanstown D0488-01-SW001 Joseph Casey 09:50 04-12-15/16-12-15 Final
Parameter	Units	Limits	
pH	pH units	> 6 And < 9	7.4
cBOD	mg/l O2	< 25	2.6
Chemical Oxygen Demand	mg/l O2	< 125	24
Conductivity @25°C	µS/cm		700
Total Suspended Solids	mg/l	< 35	16
Ammonia-Total (as N)	mg/l N	< 5	0.82
Orthophosphate (as P)	mg/l P	< 2	0.12

Comments:

- | | |
|--|--|
| 1) Results highlighted and in bold are outside specified limits. | 4) nm "Not measured" |
| 2) VOC's Analysed in the EPA Kilkenny Laboratory. | 5) ns "Not sampled for this parameter" |
| 3) F "Field measured parameter" | 6) nr "Not reported" |
| 7) ** indicates the parameter is not INAB accredited to ISO17025. | |
| 8) TOC/DOC and turbidity analysed at the EPA Monaghan laboratory. | |
| 9) Test reports relate only to the samples tested and as described on report form. | |

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

Signed: PP 

Date: 21/Dec/2015

Cara O'Loughlin
Chemist, EPA Dublin



The audit report identifies areas where Irish Water did not satisfy the requirements of the waste water discharge licence. The following items in particular should be addressed;

- There was no continuous flow meter or recorder in place at the primary discharge.
- There was no 24hr composite sampler available for compliance monitoring at the primary discharge.
- Grab samples are taken for compliance samples, composite samples are required.
- Since the last site visit discharges from the waste water works have not been compliant with the Emission Limit Values, as set out in Schedule A of the licence.
- The discharge monitoring point was not clearly labelled.

The sample taken on the day of the site visit was found to be compliant with Condition 3 of the licence.

FOLLOW-UP ACTIONS

Where relevant, Irish Water is required to implement corrective actions as a priority to bring about compliance with the Waste Water Discharge Licence and improve the environmental performance of the waste water works.

Irish Water shall maintain documentary evidence, for review by the EPA, that the prescribed corrective actions were completed in a timely manner.