

Annual Environmental Report

2021



Clogh - Moneenroe

D0340-01

CONTENTS

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2021 AER

- 1.1 ANNUAL STATEMENT OF MEASURES
- 1.2 TREATMENT SUMMARY
- 1.3 ELV OVERVIEW
- 1.4 LICENSE SPECIFIC REPORT INCLUDED IN AER

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

- 2.1 CLOGH - MONEENROE WWTP - TREATED DISCHARGE
 - 2.1.1 INFLUENT SUMMARY - CLOGH - MONEENROE WWTP
 - 2.1.2 EFFLUENT MONITORING SUMMARY - CLOGH - MONEENROE WWTP -
 - 2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE -
 - 2.1.4 OPERATIONAL REPORTS SUMMARY FOR CLOGH - MONEENROE WWTP
 - 2.1.5 SLUDGE/OTHER INPUTS TO CLOGH - MONEENROE WWTP

3 COMPLAINTS AND INCIDENTS

- 3.1 COMPLAINTS SUMMARY
- 3.2 REPORTED INCIDENTS SUMMARY
 - 3.2.1 SUMMARY OF INCIDENTS
 - 3.2.2 SUMMARY OF OVERALL INCIDENTS

4 INFRASTRUCTURAL ASSESSMENT AND PROGRAMME OF IMPROVEMENTS

- 4.1 STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT
 - 4.1.1 SWO IDENTIFICATION AND INSPECTION SUMMARY REPORT
- 4.2 REPORT ON PROGRESS MADE AND PROPOSALS BEING DEVELOPED TO MEET THE IMPROVEMENT PROGRAMME REQUIREMENTS
 - 4.2.1 SPECIFIED IMPROVEMENT PROGRAMME SUMMARY
 - 4.2.2 IMPROVEMENT PROGRAMME SUMMARY
 - 4.2.3 SEWER INTEGRITY RISK ASSESSMENT

5 LICENCE SPECIFIC REPORTS

- 5.1 DRINKING WATER ABSTRACTION POINT RISK ASSESSMENT
- 5.2 PRIORITY SUBSTANCES ASSESSMENT

6 CERTIFICATION AND SIGN OFF

- 6.1 SUMMARY OF AER CONTENTS

7 APPENDIX

7.1 PRIORITY SUBSTANCES ASSESSMENT

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2021 AER

This Annual Environmental Report has been prepared for D0340-01, Clogh - Moneenroe, in Kilkenny in accordance with the requirements of the wastewater discharge licence for the agglomeration. Specified reports where relevant are included as an appendix to the AER.

1.1 ANNUAL STATEMENT OF MEASURES

A summary of any improvements undertaken is provided where applicable.

1.2 TREATMENT SUMMARY

The agglomeration is served by a wastewater treatment plant(s)

- Clogh - Moneenroe WWTP with a Plant Capacity PE of 1740, the treatment type is 2 - Secondary treatment

1.3 ELV OVERVIEW

The overall compliance of the final effluent with the Emission Limit Values (ELVs) is shown below. More detailed information on the below ELV's can be found in Section 2.

Discharge Point Reference	Treatment Plant	Discharge Type	Compliance Status	Parameters failing if relevant
TPEFF1500D0340SW001	Clogh - Moneenroe WWTP	Treated	Non-Compliant	ortho-Phosphate (as P) - unspecified mg/l

1.4 LICENCE SPECIFIC REPORTING

Assessment / Report

There are no Licence Specific Reports included in this AER.

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 CLOGH - MONEENROE WWTP - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - CLOGH - MONEENROE WWTP

A summary of influent monitoring for the treatment plant is presented below. This monitoring is primarily undertaken in order to determine the overall efficiency of the plant in removing pollutants from the raw wastewater.

Parameters	Number of Samples	Annual Max	Annual Mean
Total Phosphorus (as P) mg/l	6	6.03	2.87
Total Nitrogen mg/l	6	43	21
COD-Cr mg/l	6	382	189
pH units	6	7.70	7.54
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	6	180	69
Ammonia-Total (as N) mg/l	6	37	15
Suspended Solids mg/l	6	220	127
Hydraulic Capacity	N/A	1107	347

If other inputs in the form of sludge / leachate are added to the WWTP then these are included in Section 2.1.5 if applicable.

Significance of Results:

The annual mean hydraulic loading is less than the peak Treatment Plant Capacity. The annual maximum hydraulic loading is less than the peak Treatment Plant Capacity. Further details on the plant capacity and efficiency can be found under the sectional 'Operational Performance Summary'. The design of the wastewater treatment plant allows for peak values and therefore the peak loads have not impacted on compliance with Emission Limit Values.

2.1.2 EFFLUENT MONITORING SUMMARY - TPEFF1500D0340SW001

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	6	N/A	N/A	34	Pass
Suspended Solids mg/l	35	87.5	N/A	6	N/A	N/A	23	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	6	N/A	N/A	7.06	Pass
pH units	9.00	9.00	N/A	6	N/A	N/A	7.63	Pass
Ammonia-Total (as N) mg/l	3.00	3.60	N/A	6	N/A	N/A	0.044	Pass
ortho-Phosphate (as P) - unspecified mg/l	0.800	0.960	N/A	6	5	5	1.65	Fail
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	6	N/A	N/A	1.97	

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
Total Nitrogen mg/l	N/A	N/A	N/A	6	N/A	N/A	13	

Notes:

1 – This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied

2 – For pH the WWDA specifies a range of pH 6 - 9

Cause of Exceedance(s):

WWTP not designed for P removal.

Significance of Results:

Ferric dosing upgrade required. Plant non compliant

2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF1500D0340SW001

A summary of monitoring from ambient monitoring points associated with the wastewater discharge is provided in the sections below. For discharges to rivers upstream (U/S) and downstream (D/S) location data is provided. For other ambient points in lakes, coastal or transitional waters, monitoring data from the most appropriate monitoring station is selected.

The table below provides details of ambient monitoring locations and details of any designations as sensitive areas.

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	River Station Code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Ecological Status
Upstream	254645, 175913	RS15D070240	No	No	No	No	Unassigned

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	River Station Code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Ecological Status
Downstream	254512, 175798	RS15D070244	No	Yes	No	No	Unassigned

The table below provides a summary of monitoring results for designated ambient monitoring points. The upstream and downstream annual mean values are shown (mg/l), and the difference between both monitoring stations is given as a percentage of the Environmental Quality Standard (EQS) where relevant.

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
BOD - 5 days (Total) mg/l	RS15D070240	1.25	RS15D070244	1.20	1.50	-3.3
Ammonia-Total (as N) mg/l	RS15D070240	0.051	RS15D070244	0.083	0.065	48.8
ortho-Phosphate (as P) - unspecified mg/l	RS15D070240	0.016	RS15D070244	0.029	0.035	37.9
Conductivity @20°C µS/cm	RS15D070240	350	RS15D070244	345	N/A	
Sulphate mg/l	RS15D070240	31	RS15D070244	32	N/A	
Dissolved Oxygen % O2	RS15D070240	100	RS15D070244	100	N/A	
Chloride mg/l	RS15D070240	21	RS15D070244	17	N/A	
Nitrate (as N) mg/l	RS15D070240	1.24	RS15D070244	1.14	N/A	
Temperature °C	RS15D070240	12	RS15D070244	12	N/A	
Nitrite (as N) mg/l	RS15D070240	0.013	RS15D070244	0.013	N/A	

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
pH units	RS15D070240	7.99	RS15D070244	8.06	N/A	

Significance of Results:

The WWTP discharge was not compliant with the ELV's set in the wastewater discharge licence for the following: ortho-Phosphate (as P) - unspecified mg/l.

The ambient monitoring results do not meet the required EQS at the downstream monitoring location. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

Based on ambient monitoring results a deterioration in Ammonia elevated downstream, concentrations downstream of the effluent discharge is noted.

A deterioration in water quality has been identified, however it is not known if it is or is not caused by the WWTP.

Other causes of deterioration in water quality in the area are: Ortho elevated downstream but within EQS

The discharge from the wastewater treatment plant does not have an observable impact on the Water Framework Directive status

2.1.4 OPERATIONAL PERFORMANCE SUMMARY - CLOGH - MONEENROE WWTP

2.1.4.1 Treatment Efficiency Report - Clogh - Moneenroe WWTP

Treatment efficiency is based on the removal of key pollutants from the influent wastewater by the treatment plant. In essence the calculation is based on the balance of load coming into the plant versus the load leaving the plant. The efficiency is presented as a percentage removal rate.

A summary presentation of the efficiency of the treatment process including information for all the parameters specified in the licence is included below:

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)
cBOD	7971	747	91
SS	14740	2387	84

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)
COD	21862	3637	83
TP	332	208	37
TN	2436	1414	42

Note: The above data is based on sample results for the number of dates reported

2.1.4.2 Treatment Capacity Report Summary - Clogh - Moneenroe WWTP

Treatment capacity is an assessment of the hydraulic (flow) and organic (the amount of pollutants) load a treatment plant is designed to treat versus the current loading of that plant.

Clogh - Moneenroe WWTP	
Peak Hydraulic Capacity (m ³ /day) - As Constructed	1173
DWF to the Treatment Plant (m ³ /day)	391
Current Hydraulic Loading - annual max (m ³ /day)	1107
Average Hydraulic loading to the Treatment Plant (m ³ /day)	347
Organic Capacity (PE) - As Constructed	1740
Organic Capacity (PE) - Collected Load (peak week) ^{Note1}	1010
Organic Capacity (PE) - Remaining	730
Will the capacity be exceeded in the next three years? (Yes/No)	No

Nominal design capacities can be based on conservative design principles. In some cases assessment of existing plants has shown organic capacities significantly higher than the nominal design capacity. Accordingly plants that appear to be overloaded when comparing a collected peak load with the nominal design capacity can be fully compliant due to the safety factors in the original design.

2.1.5 SLUDGE / OTHER INPUTS - CLOGH - MONEENROE WWTP

'Other inputs' to the waste water treatment plant are summarised in table below

Input type	Quantity	Unit	P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)?	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)
There is no Sludge and Other Input data for the Treatment Plant included in the AER.							

3 COMPLAINTS AND INCIDENTS

3.1 COMPLAINTS SUMMARY

A summary of complaints of an environmental nature related to the discharge(s) to water from the WWTP and network is included below.

Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints
There were no relevant environmental complaints in 2021.			

3.2 REPORTED INCIDENTS SUMMARY

Environmental incidents that arise in an agglomeration are reported on an on-going basis in accordance with our waste water discharge licences. Where an incident occurs and it is reportable under the licence, it is reported to the Environmental Protection Agency through their Environmental Data Exchange Network, or in some instances by telephone. Some incidents which arise in the agglomeration are recorded by Irish Water but may not be reportable under our licence for example where the incident does not have an impact on environmental performance.

A summary of reported incidents is included below.

3.2.1 SUMMARY OF INCIDENTS

Incident Type	Cause	No. of incident occurrences	Recurring (Y/N)	Closed (Y/N)
Breach of ELV	WWTP not designed for P removal	1	Yes	No

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2021	1
Number of Incidents reported to the EPA via EDEN in 2021	1
Explanation of any discrepancies between the two numbers above	N/A

4 INFRASTRUCTURAL ASSESSMENTS AND PROGRAMME OF IMPROVEMENTS

4.1 STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT

A summary of the operation of the storm water overflows and their significance where known is included below:

4.1.1 SWO IDENTIFICATION

WWDL Name / Code for Storm Water Overflow (chamber) where applicable	Irish Grid Ref. (outfall)	Included in Schedule of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2021 (No. of events)	Total volume discharged in 2021 (m3)	Monitoring Status
SW2	279004, 208215	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
SW3	256298, 179796	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
SW4	284960, 221155	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
SW5	256188, 178488	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
SW6	256291, 118091	Yes	Low	Meeting	Unknown	Unknown	Not Monitored

Any TBC SWO(s) were identified as part of the on-going National SWO programme and will be updated in subsequent AER(s) once the information is confirmed.

SWO Summary	
How much sewage was discharged via SWOs in the agglomeration in the year (m3)?	Unknown
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	N/A
The SWO Assessment included the requirements of relevant of WWDL schedules?	Yes
Have the EPA been advised of any additional SWOs / changes to Schedule C3 and A4 under Condition 1.7?	N/A

4.2 REPORT ON PROGRESS MADE AND PROPOSALS BEING DEVELOPED TO MEET THE IMPROVEMENT PROGRAMME REQUIREMENTS.

4.2.1 SPECIFIED IMPROVEMENT PROGRAMME SUMMARY

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides a list of the various reports required for this agglomeration and a brief summary of their recommendations.

Specified Improvement Programmes (under Schedule A and C of WWDL)	Description	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
D0340-SIP:01	Improvement works including nutrient reduction to ensure compliance with the emission limit values as specified in Schedule A: Discharges and Discharge Monitoring.	C	31/12/2019	Yes	Not Started		Capital works not funded in RC3. Capital works funding post 2024 will be contingent on the project being included in the 2025-2029 investment period.

A summary of the status of any other improvements identified by under Condition 5 assessments- is included below.

4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
No additional improvements planned at this time.				

4.2.3 SEWER INTEGRITY RISK ASSESSMENT

The utilisation of multiple capital maintenance programmes and the outputs of the workshops with the Local Authority Operations Staff held under the programme can be used to satisfy the requirements of Condition 5 regarding network integrity. Improvement works identified by way of these programmes and workshops will be included in the Improvements Summary Tables 4.2.1 and 4.2.2.

5 LICENCE SPECIFIC REPORTS

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides a list of the various reports required for this agglomeration and a brief summary of their recommendations.

Licence Specific Report	Required by licence	Year included in AER	Included in this AER
Drinking Water Abstraction Point Risk Assessment	Yes	2015	No
Priority Substances Assessment	Yes	2015	Yes

6 CERTIFICATION AND SIGN OFF

6.1 SUMMARY OF AER CONTENTS

Parameter	Answer
Does the AER include an Executive Summary?	Yes
Does the AER include an assessment of the performance of the Waste Water Works (i.e. have the results of assessments been interpreted against WWDL requirements and or Environmental Quality Standards)?	Yes
Has a Technical amendment/licence review application been submitted to the Agency by IW?	No
List reason e.g. additional SWO identified	N/A
Is there a need to request/advise the EPA of any modification to the existing WWDL with respect to condition 4 changes to monitoring location, frequency etc	Yes
List reason e.g. changes to monitoring requirements	Ambient monitoring location changes proposed by IW
Have these processes commenced?	No
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	N/A

I certify that the information given in this Annual Environmental Report is truthful, accurate and complete:

Date: 07/04/2022

This AER has been produced by Irish Water's Environmental Information System (EIMS) and has been electronically signed off in that system for and on behalf of,

Katherine Walshe

Acting Head of Environmental Regulation

7 APPENDIX

Appendix

Appendix 7.1 - Priority Substances Assessment

Monitored Entity Name	Monitored Entity Code	Station Name	Station Code	Sample Code	Sample Date	Sampling Method	Laboratory	Env Parameter	Result	Measurement Unit	Accredited	Limit of Detection	Irish Water/EPA requirement
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	TMS	pH	7.67	pH Units	Yes In House	Not applicable	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	TMS	Chloride	50	mg/l	Yes In House	1	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	TMS	Conductivity (at 20 oC)	713	µS/cm	Yes In House	100	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Total Hardness (as CaCO ₃)	209	mg/l	Yes Subcontracted	Not applicable	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	Elab	Cyanide	< 5	µg/l	Yes Subcontracted	5	5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	TMS	Fluoride	370	µg/l	Yes In House	10	250
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	2,4-D	< 0.05	µg/l	Yes Subcontracted	0.05	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS Prague	2,6-Dichlorobenzamide	< 0.050	µg/l	Yes Subcontracted	0.05	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Trichlorobenzene (all isomers)	< 0.03	µg/l	Yes Subcontracted	0.03	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Atrazine	< 0.020	µg/l	Yes Subcontracted	0.02	1
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	alpha-HCH - Hexachlorocyclohexane	< 0.003	µg/l	Yes Subcontracted	0.003	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	beta-HCH - Hexachlorocyclohexane	< 0.003	µg/l	Yes Subcontracted	0.003	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Dichlobenil	4	ng/l	Yes Subcontracted	2	Not applicable

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Approved by: 
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 Technical Manager

Monitored Entity Name	Monitored Entity Code	Station Name	Station Code	Sample Code	Sample Date	Sampling Method	Laboratory	Env Parameter	Result	Measurement Unit	Accredited	Limit of Detection	Irish Water/EPA requirement
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Dieldrin	< 4	ng/l	Yes Subcontracted	4	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Diuron	0.08	µg/l	Yes Subcontracted	0.01	0.9
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	gamma-HCH - Hexachlorocyclohexane	< 0.0027	µg/l	Yes Subcontracted	0.0027	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Hexachlorocyclohexane (all isomers)	< 0.0087	µg/l	Yes Subcontracted	0.0087	0.02
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Glyphosate	0.565	µg/l	Yes Subcontracted	0.1	30
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	Synlab	Hexachlorobutadiene	< 0.2	µg/l	Yes Subcontracted	0.2	0.5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Isodrin	< 0.004	µg/l	Yes Subcontracted	0.004	1
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Isoproturon	0.17	µg/l	Yes Subcontracted	0.01	0.5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	MCPA	< 0.05	µg/l	Yes Subcontracted	0.05	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Mecoprop	< 0.04	µg/l	Yes Subcontracted	0.04	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Simazine	< 0.020	µg/l	Yes Subcontracted	0.02	2
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Linuron	< 0.01	µg/l	Yes Subcontracted	0.01	0.35
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Antimony (filtered)	< 1.3	µg/l	Yes Subcontracted	1.3	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Arsenic (filtered)	0.67	µg/l	Yes Subcontracted	0.24	12.5

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Monitored Entity Name	Monitored Entity Code	Station Name	Station Code	Sample Code	Sample Date	Sampling Method	Laboratory	Env Parameter	Result	Measurement Unit	Accredited	Limit of Detection	Irish Water/EPA requirement
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Barium (filtered)	30	µg/l	Yes Subcontracted	2	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Boron (filtered)	< 56	µg/l	Yes Subcontracted	56	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Cadmium (filtered)	< 0.02	µg/l	Yes Subcontracted	0.07	0.225
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Chromium (filtered)	< 0.20	µg/l	Yes Subcontracted	2	2.5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Cobalt (filtered)	< 0.12	µg/l	Yes Subcontracted	0.08	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Copper (filtered)	15	µg/l	Yes Subcontracted	1.8	2.5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Lead (filtered)	< 0.30	µg/l	Yes Subcontracted	0.3	1
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Mercury (filtered)	< 0.010	µg/l	Yes Subcontracted	0.01	0.5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Molybdenum (filtered)	< 2.50	µg/l	Yes Subcontracted	2.7	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Nickel (filtered)	< 1.0	µg/l	Yes Subcontracted	1	17
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Selenium (filtered)	< 1.2	µg/l	Yes Subcontracted	0.6	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Tin (filtered)	< 1.5	µg/l	Yes Subcontracted	1.5	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Vanadium (filtered)	0.46	µg/l	Yes Subcontracted	0.08	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Zinc (Filtered)	16	µg/l	Yes Subcontracted	4	4

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Monitored Entity Name	Monitored Entity Code	Station Name	Station Code	Sample Code	Sample Date	Sampling Method	Laboratory	Env Parameter	Result	Measurement Unit	Accredited	Limit of Detection	Irish Water/EPA requirement
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Acenaphthene	< 0.010	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Acenaphthylene	< 0.010	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Anthracene	< 0.010	µg/l	Yes Subcontracted	0.01	0.05
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Benzo(a)anthracene	< 0.010	µg/l	Yes Subcontracted	0.01	0.01
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Benzo(g,h,i)perylene	< 0.010	µg/l	Yes Subcontracted	0.01	0.01
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Benzo(a)pyrene	< 0.010	µg/l	Yes Subcontracted	0.01	0.01
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Benzo(b)fluoranthene	< 0.010	µg/l	Yes Subcontracted	0.01	0.01
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Benzo(k)fluoranthene	0.011	µg/l	Yes Subcontracted	0.01	0.01
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Chrysene	< 0.010	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Dibenz (a,h) anthracene	< 0.010	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Fluoranthene	< 0.010	µg/l	Yes Subcontracted	0.01	0.6
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Fluorene	< 0.010	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Indeno(1,2,3-c,d)pyrene	< 0.010	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Naphthalene	< 0.010	µg/l	Yes Subcontracted	0.01	65

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Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Phenanthrene	< 0.010	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Pyrene	< 0.010	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Polyaromatic Hydrocarbons (PAH) -Sum	0.011	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	1,2-Dichloroethane	< 1.00	µg/l	Yes Subcontracted	1.0	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Benzene	< 1.00	µg/l	Yes Subcontracted	1.0	5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Carbon Tetrachloride	< 1.00	µg/l	Yes Subcontracted	1.0	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Chloroform - Trichloromethane	1.34	µg/l	Yes Subcontracted	1.0	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Dichloromethane	< 1.00	µg/l	Yes Subcontracted	1.0	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Ethyl benzene	< 1.00	µg/l	Yes Subcontracted	1.0	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	m&p xylene	< 1.00	µg/l	Yes Subcontracted	1.0	5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	o-xylene	< 1.00	µg/l	Yes Subcontracted	1.0	5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Trichloroethene - Trichloroethylene	< 1.00	µg/l	Yes Subcontracted	1.0	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Tetrachloroethene - Tetrachloroethylene	< 1.00	µg/l	Yes Subcontracted	1.0	Not applicable

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Monitored Entity Name	Monitored Entity Code	Station Name	Station Code	Sample Code	Sample Date	Sampling Method	Laboratory	Env Parameter	Result	Measurement Unit	Accredited	Limit of Detection	Irish Water/EPA requirement
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Toluene	< 1.00	µg/l	Yes Subcontracted	1.0	5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Hexachlorobenzene	< 0.002	µg/l	Yes Subcontracted	0.002	0.5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28892-4	18/08/2021	Composite	ALS	Xylenes (Total)	< 2	µg/l	Yes Subcontracted	2.0	5

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Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	TMS	pH	7.69	pH Units	Yes In House	Not applicable	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	TMS	Chloride	60	mg/l	Yes In House	1	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	TMS	Conductivity (at 20 oC)	694	µS/cm	Yes In House	100	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Total Hardness (as CaCO3)	250	mg/l	Yes Subcontracted	Not applicable	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	Elab	Cyanide	< 5	µg/l	Yes Subcontracted	5	5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	TMS	Fluoride	450	µg/l	Yes In House	10	250
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	2,4-D	< 0.05	µg/l	Yes Subcontracted	0.05	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS Prague	2,6-Dichlorobenzamide	< 0.050	µg/l	Yes Subcontracted	0.05	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Trichlorobenzene (all isomers)	< 0.030	µg/l	Yes Subcontracted	0.03	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Atrazine	< 0.020	µg/l	Yes Subcontracted	0.02	1
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	alpha-HCH - Hexachlorocyclohexane	< 0.008	µg/l	Yes Subcontracted	0.003	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	beta-HCH - Hexachlorocyclohexane	< 0.004	µg/l	Yes Subcontracted	0.003	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Dichlobenil	< 4	ng/l	Yes Subcontracted	2	Not applicable

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Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Dieldrin	< 5	ng/l	Yes Subcontracted	4	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Diuron	< 0.50	µg/l	Yes Subcontracted	0.01	0.9
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	gamma-HCH - Hexachlorocyclohexane	< 0.0043	µg/l	Yes Subcontracted	0.0027	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Hexachlorocyclohexane (all isomers)	< 0.0163	µg/l	Yes Subcontracted	0.0087	0.02
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Glyphosate	14.3	µg/l	Yes Subcontracted	0.1	30
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	Synlab	Hexachlorobutadiene	< 0.2	µg/l	Yes Subcontracted	0.05	0.5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Isodrin	< 0.006	µg/l	Yes Subcontracted	0.004	1
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Isoproturon	< 0.50	µg/l	Yes Subcontracted	0.01	0.5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	MCPA	< 0.05	µg/l	Yes Subcontracted	0.05	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Mecoprop	< 0.04	µg/l	Yes Subcontracted	0.04	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Simazine	< 0.022	µg/l	Yes Subcontracted	0.02	2
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Linuron	< 0.50	µg/l	Yes Subcontracted	0.01	0.35
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Antimony (filtered)	< 1.3	µg/l	Yes Subcontracted	1.3	Not applicable

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Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Arsenic (filtered)	0.42	µg/l	Yes Subcontracted	0.24	12.5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Barium (filtered)	33	µg/l	Yes Subcontracted	2	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Boron (filtered)	< 56	µg/l	Yes Subcontracted	56	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Cadmium (filtered)	< 0.02	µg/l	Yes Subcontracted	0.02	0.225
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Chromium (filtered)	< 0.20	µg/l	Yes Subcontracted	0.2	2.5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Cobalt (filtered)	< 0.12	µg/l	Yes Subcontracted	0.08	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Copper (filtered)	9.3	µg/l	Yes Subcontracted	1.8	2.5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Lead (filtered)	< 0.30	µg/l	Yes Subcontracted	0.3	1
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Mercury (filtered)	< 0.050	µg/l	Yes Subcontracted	0.05	0.5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Molybdenum (filtered)	< 2.50	µg/l	Yes Subcontracted	2.5	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Nickel (filtered)	< 1.0	µg/l	Yes Subcontracted	1	17
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Selenium (filtered)	< 1.2	µg/l	Yes Subcontracted	1.2	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Tin (filtered)	< 1.5	µg/l	Yes Subcontracted	1.5	Not applicable

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Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Vanadium (filtered)	0.25	µg/l	Yes Subcontracted	0.08	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Zinc (Filtered)	14	µg/l	Yes Subcontracted	4	4
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Acenaphthene	< 0.01	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Acenaphthylene	< 0.01	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Anthracene	< 0.01	µg/l	Yes Subcontracted	0.01	0.05
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Benzo(a)anthracene	< 0.01	µg/l	Yes Subcontracted	0.01	0.01
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Benzo(g,h,i)perylene	< 0.01	µg/l	Yes Subcontracted	0.01	0.01
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Benzo(a)pyrene	< 0.01	µg/l	Yes Subcontracted	0.01	0.01
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Benzo(b)fluoranthene	< 0.01	µg/l	Yes Subcontracted	0.01	0.01
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Benzo(k)fluoranthene	< 0.01	µg/l	Yes Subcontracted	0.01	0.01
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Chrysene	< 0.01	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Dibenz (a,h) anthracene	< 0.01	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Fluoranthene	< 0.01	µg/l	Yes Subcontracted	0.01	0.6

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Monitored Entity Name	Monitored Entity Code	Station Name	Station Code	Sample Code	Sample Date	Sampling Method	Laboratory	Env Parameter	Result	Measurement Unit	Accredited	Limit of Detection	Irish Water/EPA requirement
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Fluorene	< 0.01	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Indeno(1,2,3-c,d)pyrene	< 0.01	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Naphthalene	< 0.01	µg/l	Yes Subcontracted	0.01	65
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Phenanthrene	< 0.01	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Pyrene	< 0.01	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Polyaromatic Hydrocarbons (PAH) - Sum	< 0.01	µg/l	Yes Subcontracted	0.01	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	1,2-Dichloroethane	< 1.00	µg/l	Yes Subcontracted	1.0	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Benzene	< 1.00	µg/l	Yes Subcontracted	1.0	5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Carbon Tetrachloride	< 1.00	µg/l	Yes Subcontracted	1.0	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Chloroform - Trichloromethane	1.25	µg/l	Yes Subcontracted	1.0	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Dichloromethane	< 1.00	µg/l	Yes Subcontracted	1.0	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Ethyl benzene	< 1.00	µg/l	Yes Subcontracted	1.0	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	m&p xylene	< 1.00	µg/l	Yes Subcontracted	1.0	5

Prepared by:


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Approved by:


 Dr Imelda Shanahan
 Technical Manager

Confidential Report

Client: Kilkenny County Council

Date: 21 May 2021



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Monitored Entity Name	Monitored Entity Code	Station Name	Station Code	Sample Code	Sample Date	Sampling Method	Laboratory	Env Parameter	Result	Measurement Unit	Accredited	Limit of Detection	Irish Water/EPA requirement
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	o-xylene	< 1.00	µg/l	Yes Subcontracted	1.0	5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Trichloroethene - Trichloroethylene	< 1.00	µg/l	Yes Subcontracted	1.0	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Tetrachloroethene - Tetrachloroethylene	< 1.00	µg/l	Yes Subcontracted	1.0	Not applicable
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Toluene	< 1.00	µg/l	Yes Subcontracted	1.0	5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Hexachlorobenzene	< 0.004	µg/l	Yes Subcontracted	0.002	0.5
Clogh-Moneenroe	D0340	Clogh-Moneenroe WWTP	TPEFF1500D0340SW001	28388-4	14/04/2021	Composite	ALS	Xylenes (Total)	< 1.00	µg/l	Yes Subcontracted	1.0	5

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