Annual Environmental Report

2021



Midleton

D0056-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2021 AER

This Annual Environmental Report has been prepared for D0056-01, Midleton, in Cork 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)

MIDLETON WWTP with a Plant Capacity PE of 15000, the treatment type is 3N - Tertiary N removal

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
TPEFF0500D0056SW001	MIDLETON WWTP	Combined	Non-Compliant	Faecal Coliforms

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 MIDLETON WWTP - COMBINED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - MIDLETON 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 Nitrogen mg/l	18	55	21	
COD-Cr mg/l	18	626	230	
BOD, 5 days with Inhibition (Carbonaceo mg/l	18	221	91	
Hydraulic Capacity	N/A	13865	8254	

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 greater than the peak Treatment Plant Capacity. Further details on the plant capacity and efficiency can be found under the sectional 'Operational Performance Summary'.

2.1.2 EFFLUENT MONITORING SUMMARY - TPEFF0500D0056SW100

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	26	N/A	N/A	21	Pass
Suspended Solids mg/l	35	87.5	N/A	26	1	N/A	5.26	Pass
BOD, 5 days with Inhibition (Carbonaceo mg/I	25	50	N/A	26	N/A	N/A	1.88	Pass
Total Nitrogen mg/l	15	18	N/A	26	N/A	N/A	5.68	Pass

Notes:

Cause of Exceedance(s):

N/A

Significance of Results:

SW100 WWTP is compliant with the ELV's set in the Urban Wastewater Treatment Directive

^{1 –} This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied 2 – SW100 compliance with regard to Urban Waste Water Treatment Directive

2.1.3 EFFLUENT MONITORING SUMMARY - TPEFF0500D0056SW001 COMBINED

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	26	N/A	N/A	21	Pass
Suspended Solids mg/l	35	87.5	N/A	26	1	N/A	5.26	Pass
BOD, 5 days with Inhibition (Carbonaceo mg/I	25	50	N/A	26	N/A N/A		1.88	Pass
Total Nitrogen mg/l	15	18	N/A	26	N/A	N/A	5.68	Pass
pH pH units	9.00	9.00	N/A	26	N/A	N/A	8.03	Pass
ortho- Phosphate (as P) - unspecified mg/l	2.00	2.40	N/A	26	N/A	N/A	0.330	Pass
Chromium - unspecified µg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
PCB 28 μg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	

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 Oxidised Nitrogen (as N) mg/l	N/A	N/A	N/A	25	N/A	N/A	4.82	
Ammonia-Total (as N) mg/l	N/A	N/A	N/A	26	N/A	N/A	0.303	
Cadmium - unspecified µg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
PCB 118 µg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
Nickel - unspecified µg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
Copper - unspecified µg/l	N/A	N/A	N/A	1	N/A	N/A	39	
PCB 180 µg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
Lead - unspecified µg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
Arsenic - unspecified µg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	

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)
PCB 101 μg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
Zinc - unspecified µg/l	N/A	N/A	N/A	1	N/A	N/A	39	
Faecal coliforms no./100mls	<250FC/100mls	N/A	N/A	27	N/A	N/A	494	Fail
Mercury - unspecified µg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
PCB 153 μg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
PCB 138 μg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
PCB 52 μg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	

Cause of Exceedance(s):

Under investigation

^{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 pH6 – 9

Significance of Results:

The WWTP is compliant with most of the ELV's set in the Wastewater Discharge Licence aside from the Faecal coliforms requirements.

2.1.4 AMBIENT MONITORING SUMMARY FOR THE COMBINED DISCHARGE TPEFF0500D0056SW001

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
Downstream	187001, 70001	TW05003153LE6005	No	No	No	No	Moderate
Downstream	185998, 68502	TW05003153LE6006	No	No	No	No	Moderate

The results for ambient results and / or additional monitoring data sets are included in the Appendix 7.1 - Ambient monitoring summary

Significance of Results:

The WWTP discharge was non-compliant with the ELV's set in the wastewater discharge licence.

The ambient monitoring results meet the required EQS. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

The discharge from the wastewater treatment plant does not have an observable impact on the water quality.

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

2.1.5 OPERATIONAL PERFORMANCE SUMMARY - MIDLETON WWTP

2.1.5.1 Treatment Efficiency Report - MIDLETON 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)	
ss	119928	15024	87	
TN	59142	16217	73	
cBOD	255968	5377	98	
ТР	N/A	N/A	N/A	
COD	649654	58973	91	

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

2.1.5.2 Treatment Capacity Report Summary - MIDLETON 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.

MIDLETON WWTP	
Peak Hydraulic Capacity (m³/day) - As Constructed	10368
DWF to the Treatment Plant (m³/day)	3456
Current Hydraulic Loading - annual max (m³/day)	13865

MIDLETON WWTP	
Average Hydraulic loading to the Treatment Plant (m³/day)	8254
Organic Capacity (PE) - As Constructed	15000
Organic Capacity (PE) - Collected Load (peak week)Note1	16376
Organic Capacity (PE) - Remaining	0
Will the capacity be exceeded in the next three years? (Yes/No)	Yes

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.

2.1.6 SLUDGE / OTHER INPUTS - MIDLETON 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	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)
Abatement Equipment offline	Plant or equipment breakdown at WWTP	1	No	Yes
Abatement Equipment offline	Plant or equipment breakdown at WWTP	1	No	Yes
Abatement Equipment offline	Plant or equipment breakdown at WWTP	1	No	No

Incident Type	Cause	No. of incident occurrences	Recurring (Y/N)	Closed (Y/N)
Abatement Equipment offline	Plant or equipment breakdown at WWTP	1	No	No
Uncontrolled release	Network Infrastructure	1	Yes	No
Uncontrolled release	EO caused by pump failure	1	No	Yes
Uncontrolled release	Inadequate Infrastructure	1	Yes	No

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2021	7
Number of Incidents reported to the EPA via EDEN in 2021	7
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
ТВС	188346, 73332	No	Low	Meeting	Unknown	Unknown	Not Monitored
ТВС	188265, 73234	No	Low	Meeting	Unknown	Unknown	Not Monitored
ТВС	188332, 73316	No	Low	Meeting	Unknown	Unknown	Not Monitored
ТВС	1887402, 73011	No	Low	Meeting	Unknown	Unknown	Not Monitored
ТВС	187687, 73025	No	Low	Not Yet Assessed	Unknown	Unknown	Not Monitored
ТВС	188346, 73332	No	Low	Meeting	Unknown	Unknown	Not Monitored

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
SW03MIDL	187975, 73109	Yes	Low	Not Meeting	Unknown	Unknown	Monitored
SW04MIDL	188047, 72518	Yes	Low	Not Meeting	Unknown	Unknown	Monitored
SW05MIDL	188518, 71783	Yes	Low	Meeting	Unknown	Unknown	Monitored
SW07MIDL	187475, 72902	Yes	Low	Meeting	Unknown	Unknown	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?	No
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?	No

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
D0056-SIP:01	Increase Midleton WWTP capacity to 15,000PE	С	31/12/2011	Yes	Works Completed		
D0056-SIP:02	Infiltration programme	С	31/12/2011	Yes	Works Completed		
D0056-SIP:03	Infiltration programme - SW03	С	31/12/2011	Yes	Works Completed		
D0056-SIP:04	Infiltration programme - SW04	С	31/12/2011	Yes	Works Completed		
D0056-SIP:05	Upgrading of Storm Water Overflows to comply with the limits outlined in Schedule A.4 (Condition 5.6) - SW03	С	31/12/2011	Yes	At Planning Stage	2029	
D0056-SIP:06	Upgrading of Storm Water Overflows to comply with the	С	31/12/2011	Yes	At Planning Stage	2029	

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
	limits outlined in Schedule A.4 (Condition 5.6) - SW04						

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

4.2.2 IMPROVEMENT PROGRAMMESUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
No additional improver	ments 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
Priority Substances Assessment	Yes	2014	No

6 CERTIFICATION AND SIGN OFF

6.1 SUMMARY OF AER CONTENTS

Parameter				
Does the AER include an Executive Summary?				
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)?				
Is there a need to advise the EPA for consideration of a Technic	Is there a need to advise the EPA for consideration of a Technical Amendment / Review of the licence?			
List reason e.g. additional SWO identified	Licence Review to be carried out as per High Court Order made in case 2020 N	lo 981 JR		
Is there a need to request/advise the EPA of any modification to location, frequency etc	o the existing WWDL with respect to condition 4 changes to monitoring	No		
List reason e.g. changes to monitoring requirements		N/A		
Have these processes commenced?				
Are all outstanding reports and assessments from previous AE	Rs 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: 12/05/2022

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 - Ambient monitoring summary

Transitional Monitoring Data

Waterbody Name Wa	Vaterbody Code	Waterbody	Monitoring Station Code	Monitoring Station Name	Monitoring Station Type		Sample Code		Sample Method	Parameter Name	Paramete Short Cos		Name Result	Text			Report Te	xt Result	Report
Waterbody Name Wa	Waterbody Code	Type	Code	Monitoring Station Name			Code	Sample Date	Method	Parameter Name	Short Co.			Result	String	Detection	tesult Re	suit String	Limit
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational					Ammonia-Total (as N)	mg/l	milligrams per l		029	OK	0.01	0.029	OK	0.01
	E_SW_060_0300 E_SW_060_0300	Transitional Transitional	TW05003153LE6005 TW05003153LE6005		Operational					Dissolved Oxygen Ammonia-Total (as N)	% Satural	tion Percentage Satu milligrams per I		103 031	OK OK	0.01	103 0.031	OK	0.01
	E SW 060 0300	Transitional	TW05003153LE6005		Operational					Temperature	mg/l Å*C	Degrees centrie		5.8	OK	0.01	15.8	OK	0.01
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational					Total Oxidised Nitrogen (as N)	mg/l	milligrams per l	tre 0.	066	OK	0.01	0.066	OK	0.01
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational					ortho-Phosphate (as P) - unspecified		milligrams per l	tre	< 0.005	OK	0.005	0.0025 <0		0.005
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational			29/06/2021			pH units	pH Units	_	8.2	OK	2	8.2	OK	2
	E_SW_060_0300 E_SW_060_0300	Transitional Transitional	TW05003153LE6005 TW05003153LE6005		Operational Operational					Dissolved Oxygen ortho-Phosphate (as P) - unspecified	% Satural mg/l	tion Percentage Satu milligrams per I		104 <0.005	OK OK	0.005	104 0.0025 <0	OK .005 OK	0.005
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational			29/06/2021			pH units	pH Units	LIE	8.2	OK	2	8.2	OK OK	0.005
	E SW 060 0300	Transitional	TW05003153LE6005	LES40 - Ballynacorra Est, Rathcoursey	Operational	Cork County Counci	21-10089	29/06/2021	TRaC Bottom	Temperature	A*C	Degrees centrig	rade	5.7	OK		15.7	OK	
	E_SW_060_0300	Transitional	TW05003153LE6005	LES40 - Ballynacorra Est, Rathcoursey	Operational					Total Oxidised Nitrogen (as N)	mg/l	milligrams per l		068	OK	0.01	0.068	OK	0.01
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational					Ammonia-Total (as N)	mg/l	milligrams per l		034	OK	0.01	0.034	OK	0.01
	E_SW_060_0300 E_SW_060_0300	Transitional Transitional	TW05003153LE6005 TW05003153LE6005		Operational Operational	Cork County Counci				Ammonia-Total (as N) Dissolved Oxygen	mg/l % Satural	milligrams per I tion Percentage Satu		024 130	OK OK	0.01	0.024	OK OK	0.01
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational					Dissolved Oxygen	% Satural			121	OK	1	121	OK	1
	E SW 060 0300	Transitional	TW05003153LE6005		Operational					ortho-Phosphate (as P) - unspecified		milligrams per l		<0.005	OK	0.005	0.0025 <0		0.005
North Channel Great Island IE	E_SW_060_0300	Transitional	TW05003153LE6005	LES40 - Ballynacorra Est, Rathcoursey	Operational	Cork County Counci	21-14497	24/08/2021	TRaC Bottom	pH	pH units	pH Units		8.2	OK	2	8.2	OK	2
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational	Cork County Counci				Temperature	Å*C	Degrees centrig		7.6	OK		17.6	OK	
	E_SW_060_0300	Transitional	TW05003153LE6005	and the same of the same of	Operational					Temperature	Å*C	Degrees centrig		7.6	OK		17.6	OK	
	E_SW_060_0300 E_SW_060_0300	Transitional Transitional	TW05003153LE6005 TW05003153LE6005		Operational					Total Oxidised Nitrogen (as N) ortho-Phosphate (as P) - unspecified	mg/l i mg/l	milligrams per l milligrams per l		0.005 <0.005	OK OK	0.01	0.015	OK 005 OK	0.01
	E SW 060 0300	Transitional	TW05003153LE6005		Operational			24/08/2021			pH units	pH Units	cre	8.2	OK	2	8.2	OK OK	2
	E SW 060 0300	Transitional	TW05003153LE6005		Operational					Total Oxidised Nitrogen (as N)	mg/l	milligrams per l	tre 0.	012	OK	0.01	0.012	OK	0.01
North Channel Great Island IE	E_SW_060_0300	Transitional	TW05003153LE6005	LES40 - Ballynacorra Est, Rathcoursey	Operational	Cork County Counci	21-17757	03/11/2021	TRaC Surface	Temperature	Å*C	Degrees centrig	rade	1.8	OK		11.8	OK	
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational	Cork County Counci				Temperature	Å*C	Degrees centrig		1.9	OK		11.9	OK	
	E_SW_060_0300 E_SW_060_0300	Transitional Transitional	TW05003153LE6005 TW05003153LE6005	read and interest and interest and	Operational					Total Oxidised Nitrogen (as N) Dissolved Oxygen	mg/l % Satural	milligrams per I tion Percentage Satu		.42 83	OK OK	0.01	0.42	OK OK	0.01
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational					Dissolved Oxygen Dissolved Oxygen	% Satural			85	OK	1	85	OK	1
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational					ortho-Phosphate (as P) - unspecified		milligrams per l		022	OK	0.005	0.022	OK	0.005
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational			03/11/2021			pH units	pH Units		7.9	OK	2	7.9	OK	2
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational			03/11/2021			pH units	pH Units		7.9	OK	2	7.9	OK	2
	E_SW_060_0300	Transitional	TW05003153LE6005		Operational					Total Oxidised Nitrogen (as N)	mg/l	milligrams per l		0.3	OK	0.01	0.3	OK	0.01
	E_SW_060_0300 E_SW_060_0300	Transitional Transitional	TW05003153LE6005	LES40 - Ballynacorra Est, Rathcoursey LES40 - Ballynacorra Est, Rathcoursey	Operational					Ammonia-Total (as N) Ammonia-Total (as N)	mg/l mg/l	milligrams per l milligrams per l		058 082	OK OK	0.01	0.058	OK OK	0.01
	E_SW_060_0300	Transitional		LES40 - Ballynacorra Est, Rathcoursey	Operational					ortho-Phosphate (as P) - unspecified		milligrams per l		.02	OK	0.005	0.02	OK	0.005
										and the fact of the fact of									
																	Report Rej		
Waterhoelu Name Waterhoelu		Waterbody	Monitoring Station	Munituring Station Name			Sample Code San	Sample note Metho			arameter Unit	arameter linit Name	Text	Result	Limit Of	Report	Text Re	sult Report	
	aterbody Code		Code	Monitoring Station Name LESSO - East Ferry Quay, Rathcoursey West	Station Type	Local Authority		Sample type Date Metho 29/06/2021 TRAC B	d Para	meter Name S	hort Code P	arameter Unit Name	Text Result Resul		Limit Of Detection 0.01	Report 1		sult Report ing Limit	.01
North Channel Great Island IE_S	sw_060_0300	Туре	Code TW05003153LE6006		Station Type Operational	Local Authority Cork County Council	Code San	ple Date Metho	d Para	meter Name S nonia-Total (as N) m	hort Code P		Result Resul	String	Detection	Report 1 Result 1 0.028	Text Res Result Str	sult Report ing Limit	.01 .01
North Channel Great Island IE_S North Channel Great Island IE_S North Channel Great Island IE_S	SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300	Type Transitional Transitional Transitional	Code TW05003153LE6006 TW05003153LE6006 TW05003153LE6006	LESSO - East Ferry Quay, Rathcoursey West LESSO - East Ferry Quay, Rathcoursey West LESSO - East Ferry Quay, Rathcoursey West	Station Type Operational Operational Operational	Local Authority Cork County Council Cork County Council Cork County Council	Code San 21-10097 21-10098 21-10098	29/06/2021 TRaC B 29/06/2021 TRaC S 29/06/2021 TRaC S 29/06/2021 TRaC S	d Param sottom Amm surface Amm surface Disso	meter Name S nonia-Total (as N) m nonia-Total (as N) m pived Oxygen %	hort Code P ng/l n ng/l n i Saturation P	nilligrams per litre nilligrams per litre ercentage Saturation	0.028 0.033 104	OK OK OK	0.01 0.01 1	Report 1 Result 1 0.028 0.033 104	Fext Res Result Stri OK OK	sult Report ing Limit	01
North Channel Great Island IE_S	SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300	Type Transitional Transitional Transitional Transitional	Code TW05003153LE6006 TW05003153LE6006 TW05003153LE6006 TW05003153LE6006	LESSO - East Ferry Quay, Rathcoursey West LESSO - East Ferry Quay, Rathcoursey West LESSO - East Ferry Quay, Rathcoursey West LESSO - East Ferry Quay, Rathcoursey West	Station Type Operational Operational Operational Operational	Local Authority Cork County Council Cork County Council Cork County Council Cork County Council	Code San 21-10097 21-10098 21-10098 21-10098	29/06/2021 TRaC B 29/06/2021 TRaC S 29/06/2021 TRaC S 29/06/2021 TRaC S 29/06/2021 TRaC S	d Param sottom Amm surface Amm surface Disso surface ortho	meter Name S nonia-Total (as N) m nonia-Total (as N	hort Code P ng/l n ng/l n i Saturation P ng/l n	niligrams per litre niligrams per litre recentage Saturation niligrams per litre	0.028 0.033 104 <0.00	OK OK OK OK	0.01 0.01 0.01 1 0.005	Report 1 Result 1 0.028 0.033 104 0.0025	Fext Re- Result Stri OK OK 0.005 OK	sult Report ing Limit	01 1 005
North Channel Great Island IE_S	aterbody Code _SW_060_0300 _SW_060_0300 _SW_060_0300 _SW_060_0300 _SW_060_0300	Type Transitional Transitional Transitional	Code TW05003153LE6006 TW05003153LE6006 TW05003153LE6006 TW05003153LE6006 TW05003153LE6006	LESSO - East Ferry Quay, Rathcoursey West LESSO - East Ferry Quay, Rathcoursey West	Station Type Operational Operational Operational Operational Operational	Local Authority Cork County Council	Code San 21-10097 21-10098 21-10098	29/06/2021 TRaC 8 29/06/2021 TRaC 8 29/06/2021 TRaC 5 29/06/2021 TRaC 5 29/06/2021 TRaC 5 29/06/2021 TRaC 5	d Param sottom Amm surface Amm surface Disso surface ortho surface pH	meter Name S nonia-Total (as N) m nonia-Total (as N) m nonia-Total (as N) m nonia-Total (as N) m nonia-Total (as P) - unspecified m p	hort Code P ng/l n ng/l n s Saturation P ng/l n H units p	nilligrams per litre nilligrams per litre ercentage Saturation	0.028 0.033 104	OK OK OK	0.01 0.01 1	Report 1 Result 1 0.028 0.033 104 0.0025 8.2	Fext Res Result Stri OK OK	sult Report ing Limit	01
North Channel Great Island	aterbody Code _SW_060_0300 _SW_060_0300 _SW_060_0300 _SW_060_0300 _SW_060_0300 _SW_060_0300	Type Transitional Transitional Transitional Transitional Transitional	Code TW05003153LE6006 TW05003153LE6006 TW05003153LE6006 TW05003153LE6006 TW05003153LE6006 TW05003153LE6006	LESSO - East Ferry Quay, Rathcoursey West LESSO - East Ferry Quay, Rathcoursey West LESSO - East Ferry Quay, Rathcoursey West LESSO - East Ferry Quay, Rathcoursey West	Station Type Operation al Operation al Operation al Operation al Operation al Operation al	Local Authority Cork County Council	Code San 21-10097 21-10098 21-10098 21-10098 21-10098 21-10098	29/06/2021 TRAC 8 29/06/2021 TRAC 8 29/06/2021 TRAC 5 29/06/2021 TRAC 5 29/06/2021 TRAC 5 29/06/2021 TRAC 5 29/06/2021 TRAC 8	d Para sottom Amm surface Amm surface Disso surface ortho surface pH sottom Total	meter Name Sinchia (as N) minia-Total (as N) minoha-Total (as P) - unspecified minoha-Total (as P) - unspecified minoha-Total (as P) l Oxidised Nitrogen (as N) minoha-Total (as P) minoha	hort Code P ng/l n ng/l n i Saturation P ng/l n H units p ng/l n	niligrams per litre niligrams per litre vercentage Saturation niligrams per litre H Units	0.028 0.033 104 <0.00	String OK OK OK OK OK OK OK OK	0.01 0.01 0.01 1 0.005	Report 1 Result 1 0.028 0.033 104 0.0025 8.2 0.057	Text Res Result Stri OK OK 00.005 OK OK	sult Report ing Limit 0 0.0	01 1 005 2
North Channel Great Island IE. S North Channel Great Island III. S	aterbody Code _SW_060_0300 _SW_060_0300 _SW_060_0300 _SW_060_0300 _SW_060_0300 _SW_060_0300 _SW_060_0300 _SW_060_0300	Type Transitional Transitional Transitional Transitional Transitional Transitional Transitional Transitional Transitional	Code TW050031531E6006 TW050031531E6006 TW050031531E6006 TW050031531E6006 TW050031531E6006 TW050031531E6006 TW050031531E6006 TW050031531E6006 TW050031531E6006	LESSO - East Ferry Quay, Rathcoursey West LESSO - East Ferry Quay, Rathcoursey West	Station Type Operational Operational Operational Operational Operational Operational Operational Operational Operational	Local Authority Cork County Council	Code San 21-10097 21-10098 21-10098 21-10098 21-10098 21-10097 21-10097 21-10097	29/06/2021 TRaC B 29/06/2021 TRaC S 29/06/2021 TRaC S 29/06/2021 TRAC S 29/06/2021 TRAC S 29/06/2021 TRAC S 29/06/2021 TRAC B 29/06/2021 TRAC B 29/06/2021 TRAC B	d Paras sottom Amm jurface Amm jurface Disso jurface ortho jurface pH sottom Total sottom ortho sottom pH	meter Name S nonia-Total (as N) m nonia-Total (as P) - unspecified m nonia-Total (as P) - unspecified m non-Phosphate (as P) - unspecified m p	hort Code P Ig/I n Ig/I n Saturation P Ig/I n H units p Ig/I n H units p H units p	niligrams per litre niligrams per litre ercentage Saturation niligrams per litre H Units niligrams per litre H Units	Result Result 0.028 0.033 104 <0.00 8.2 0.057 <0.00 8.2	String OK	0.01 0.01 1 0.005 2 0.01	Report 0.028 0.028 0.033 104 0.0025 8.2 0.057 0.0025 8.2	Fext Re- Result Stri OK	sult Report ing Limit 0 0.0	01 1 005 2
North Channel Great Island	aterbody Code SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300	Type Transitional	Code TW050031531E6006	LESSO. East Ferry Quay, Rathocursey West LESSO. East Ferry Quay, Rathocursey West	Station Type Operational	Local Authority Cork County Council	Code San 21-10097 21-10098 21-10098 21-10098 21-10098 21-10097 21-10097 21-10097 21-10097 21-10097	pple Date Metho 29/06/2021 TRAC B 29/06/2021 TRAC S 29/06/2021 TRAC S 29/06/2021 TRAC S 29/06/2021 TRAC S 29/06/2021 TRAC B	d Paras sottom Amm surface Disso surface ortho surface pH sottom Total sottom pH sottom Disso sottom Disso	meter Name S onia-Total (as N) n nonia-Total (as N) n Nowed Oxygen S OLOxidised Nitrogen (as N) D-Phosphate (as P) - unspecified n D-Phosphate (as P) - unspecified n p p olived Oxygen p p p p polived Oxygen p p	hort Code P Ig/I n Ig/I n I Saturation P Ig/I n I H units p Ig/I n I H units p I Saturation P	niligrams per litre niligrams per litre ercentage Saturation niligrams per litre H Units niligrams per litre H Units H Units ercentage Saturation	Result Result 0.028 0.033 104 0.006 8.2 0.057 0.006 8.2 103	String OK	0.01 0.01 1 0.005 2 0.01 0.005	Report 1 Result 0.028 0.033 104 0.0025 8.2 0.057 0.0025 8.2 103	Text Result Strict OK OK OK OK OK OK OK O	sult Report ing Limit 0 0.0	01 1 005 2 01 005
North Channel Great Island IE. 5	aterbody Code SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300	Type Transitional	Code TW050031531E6006	LESSO. East Ferry Quay, Rathcoursey West LESSO. East Ferry Quay, Rathcoursey LESSO. East Ferry Quay, Rathcoursey LESSO. East Ferry Quay, Rathcoursey LESSO. East Ferry Quay, Rathcoursey LESSO. East Ferry LESSO. East Ferry LESSO. East Ferry LESSO. East Ferry LESSO. East Ferr	Station Type Operational	Local Authority Cork County Council	Code San 21-10097 21-10098 21-10098 21-10098 21-10098 21-10097 21-10097 21-10097 21-10097 21-10097	pple Date Metho 29/06/2021 TRac E 29/06/2021 TRac S 29/06/2021 TRac S 29/06/2021 TRac S 29/06/2021 TRac S 29/06/2021 TRac E	ad Paras Sottom Ammiurface Ammiurface Disso surface pH sottom Total sottom pH sottom Disso sottom Temp	meter Name Sinonia-Total (as N) nonia-Total (as P) nonia-Total (as P) nonia-Total (as P) nonia-Total (as N)	hort Code P ng/l n ng/l n sSaturation P ng/l n H units p ng/l n ng/l n H units p sSATURATION P SSATURATION P "C D	niligrams per litre niligrams per litre ercentage Saturation niligrams per litre H Units niligrams per litre H Units ercentage Saturation legrees centrigrade	Result Result 0.028 0.033 104 0.005 8.2 0.057 0.00 8.2 103 15.8	String OK	Detection 0.01 0.01 1 0.005 2 0.01 0.005	Report 1 Result 0.028 0.033 104 0.0025 8.2 0.057 0.0025 8.2 103 15.8	Text Re- Result Stri OK	sult Report ing Limit 0 0 0.0	01 1 005 2 01 005 2
North Channel Grozel Island IE.5	aterbody Code SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300 SW_060_0300	Type Transitional	Code TW050031531E6006	LESSO. East Ferry Quay, Rathocursey West LESSO. East Ferry Quay, Rathocursey West	Station Type Operation al	Local Authority Cark County Council	Code San 21-10097 21-10098 21-10098 21-10098 21-10098 21-10097 21-10097 21-10097 21-10097 21-10097	pple Date Metho 29/06/2021 TRac S 29/06/2021 TRac S 29/06/2021 TRac S 29/06/2021 TRac S 29/06/2021 TRac S 29/06/2021 TRac E 29/06/2021 TRac E	ad Paras sottom Amm surface Amm surface Disso surface orthe surface pH sottom Total sottom pH sottom Disso sottom Temp surface Temp	meter Name S nonia-Total (as N) n nonia-Total (as N) n nonia-Total (as N) n nonia-Total (as N) n nonia-Total (as N) nonia-Total (as N) nonia-Total (as P) - unspecified non-Phosphate (as P) -	hort Code P lg/1 n lg/1 n ls Saturation P lg/1 n H units p lg/1 n H units p H units p Saturation P 'C D	niligrams per litre niligrams per litre ercentage Saturation niligrams per litre H Units niligrams per litre H Units H Units ercentage Saturation	Result Result 0.028 0.033 104 0.006 8.2 0.057 0.006 8.2 103	String OK	Detection 0.01 0.01 1 0.005 2 0.01 0.005	Report Result 0.028 0.033 104 0.0025 8.2 0.057 0.0025 8.2 103 15.8 15.9	Text Result Strict OK OK OK OK OK OK OK O	sult Report ing Limit 0 0.0	01 1 005 2 01 005 2
North Channel Grozel Island IE, Shorth Channel Grozel Island II, S	SW_060_0300	Type Transitional	Code TW05003153LE6006	LESSO. East Ferry Quay, Rathocursey West	Station Type Operational	Local Authority Council Cark County Council	Code San 21-10097 21-10098 21-10098 21-10098 21-10098 21-10097 21-10097 21-10097 21-10097 21-10097 21-10098 21-10098 21-14498	pyle Date Metho 29/06/2021 TRac E 29/06/2021 TRac S 29/06/2021 TRac S 29/06/2021 TRac S 29/06/2021 TRac S 29/06/2021 TRac E 29/06/2021 TRa	ded Parai sottom Ammi surface Disso surface pH sottom Total sottom pH sottom Disso sottom Disso sottom Toma surface Amm	meter Name S nonia-Total (as N) m nonia-Total (as P) - unspecified m non-Phosphate (as P) - unspecified m nonia-Total (as N) m nonia-Total (as N) m nonia-Total (as N) m	hort Code P Ig/I In In Ing/I In Ing/I In Ing/I In Ing/I In Ing/I I	niligrams per litre niligrams per litre irrecentage Saturation niligrams per litre H Units niligrams per litre H Units ercentage Saturation perpes centrigrade logrees centrigrade niligrams per litre niligrams per litre	Result 0.028 0.033 104 40.00 8.2 2 0.057 40.00 8.2 103 15.8 15.9 0.054 0.074	String OK	0.01 0.01 0.00 1 0.005 2 0.01 0.005	Report Result 0.028 0.033 104 0.0025 8.2 0.057 0.0025 8.2 103 15.8 15.9 0.054 0.074 0.074	Fext Result Stri OK	sult Report ing Limit 0 0.0	.01 1 1005 2 .001 0005 2
North Channel Groat Idand	Section Code Code	Type Transitional	Code TW05003153LE6006	LESSO. East Ferry Quay, Rathcoursey West	Station Type Operational	Local Authority Cork County Council	Code San 21-10097 21-10098 21-10098 21-10098 21-10098 21-10097 21-10097 21-10097 21-10097 21-10098 21-10098 21-1098 21-14498 21-14499	hybe Date Metho 23/06/2021 TRac E 23/06/2021 TRac S 23/06/2021 TRac S 23/06/2021 TRac S 23/06/2021 TRac S 23/06/2021 TRac E 23/06/2021 TRac S 24/08/2021 TRAC S 24/08/021 TRAC S 24/08/2021 TRAC	ded Paras Sottom Amm surface Disso surface pH sottom Ortha sottom pH sottom Disso sottom Temp surface Total surface Total sottom Disso sottom Disso sottom Disso sottom Temp surface Amm sottom Disso sottom Disso sottom Disso sottom Temp surface Total surface Disso sottom Diss	meter Name Sinonia Total (as N) nonia-Total (as P) - unspecified nonia-Total (as N)	hort Code P	nilligrams per litre nilligrams per litre inligrams per litre ercentage Saturation nilligrams per litre en lilligrams per litre nilligrams per litre et Units ercentage Saturation legrees centrigrade legrees centrigrade nilligrams per litre ercentage Saturation	Result 0.028 0.033 104 4.0.00 8.2 0.057 4.0.00 8.2 103 15.8 15.9 0.054 0.074 118	String OK OK OK OK OK OK OK OK OK O	0.01 0.01 0.05 2 0.01 0.005 2 0.01 0.005 2 1	Report Result 0.028 0.033 104 0.0025 0.057 0.0025 0.057 0.0025 0.057 0.0025 0.054 0.054 0.054 0.074 118	Fext Result Stri OK O	sult Report ing Limit 0 0.0 0.0	.01 1 1 005 2 .01 005 2 .1
North Channel Grazi Idand E.S.	Interbody Code SW 060 0300	Type Transitional	Code TW05003153LE6006	LESSO. East Ferry Quay, Rathocursey West	Station Type Operation al	Local Authority Corris County Council Cark County Council	Code San 21-10097 21-10098 21-10098 21-10098 21-10097 21-10097 21-10097 21-10097 21-10097 21-10098 21-10098 21-14498 21-14498 21-14499	ygle Date Metho 29/06/2021 TRac S 24/08/2021 TRac S 24/08/2021 TRac S	ded Paral sottom Amm surface Disso surface ortho surface pH sottom Total sottom pH sottom Disso surface Toma surface Total surface Amm	meter Name Snonia-Total (as N) minia-Total (as N) p-Phosphate (as P) - unspecified minia-Phosphate (as P) - unspecified minia-Phosphate (as P) - unspecified minia-Phosphate (as P) - unspecified minia-Total (as N) minia-Tot	hort Code P Rg/1 nn Rg	niligrams per ikre niligrams per ikre niligrams per ikre vercentage Saturation niligrams per ikre H Units niligrams per ikre H Units vercentage Saturation negrees contrigrade negrees contrigrade niligrams per ikre vercentage Saturation negrees tentrigrade niligrams per ikre vercentage Saturation niligrams per ikre vercentage Saturation niligrams per ikre	Result 0.028 0.033 104 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	5 String OK	0.01 0.01 1 0.005 2 0.001 0.005 2 1 0.001 0.01	Report Result 6 0.028 0.033 104 0.0025 8.2 0.057 0.0025 8.2 103 15.8 15.9 0.054 0.074 1188 0.0052	Fext Result Stri OK OK O.005 OK O	sult Report limg Limit 0 0.1 0 0.1	001 1 1005 2 2 101 1005 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
North Channel Groat Island IE, 5	interbody Code SW 060 0300	Type Transitional	Code TW05003153LE6006	LESSO. East Ferry Quay, Rathcoursey West	Station Type Operation al	Local Authority Council Cark County Council	Code San 21-10097 21-10098 21-10098 21-10098 21-10098 21-10097 21-10097 21-10097 21-10097 21-10098 21-10098 21-1098 21-14498 21-14499	hybe Date Metho 23/06/2021 TRac E 23/06/2021 TRac S 23/06/2021 TRac S 23/06/2021 TRac S 23/06/2021 TRac S 23/06/2021 TRac E 23/06/2021 TRac S 24/08/2021 TRAC S 24/08/021 TRAC S 24/08/2021 TRAC	dd Parai sottom Amm surface Disso surface Disso surface Disso surface pH sottom Total sottom pH sottom Disso sottom Temp surface Temp surface Amm sottom Disso sottom pH	meter Name Onnia Total (as N) nonia-Total (as P) - unspecified non-Phosphate (as P) - unspecified nonia-Total (as N)	hort Code P P 18/1 n n 18/2 n n n 18/2 n n n 18/2 n n n n n n n n n n n n n n n n n n n	nilligrams per litre nilligrams per litre inligrams per litre ercentage Saturation nilligrams per litre en lilligrams per litre nilligrams per litre et Units ercentage Saturation legrees centrigrade legrees centrigrade nilligrams per litre ercentage Saturation	Result 0.028 0.033 104 4.0.00 8.2 0.057 4.0.00 8.2 103 15.8 15.9 0.054 0.074 118	String OK OK OK OK OK OK OK OK OK O	0.01 0.01 0.05 2 0.01 0.005 2 0.01 0.005 2 1	Report Result 6 0.028 0.033 104 0.0025 8.2 0.057 0.0025 8.2 103 15.8 15.9 0.054 0.074 118 0.0052	Fext Result Stri OK O	sult Report limg Limit 0 0.1 0 0.1	.01 1 1 005 2 .01 005 2 .1
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North Channel Grozel Island E.S. North Channel Gr	xiw chody Code SW, 060, 0300	Type Transitional	Code TW050031531E6005	LESSO. East Ferry Quay, Rathocursey West LESSO. East Ferry Quay, Rathocursey W	Station Type Operation al	Local Authority Confr County Council Cark County Council	Code San 1-1-0097 1-1-0098 1-1-0098 1-1-0098 1-1-0098 1-1-0098 1-1-0097 1-1-0097 1-1-0097 1-1-0097 1-1-0097 1-1-0097 1-1-0097 1-1-0097 1-1-0097 1-1-1098 1-1-14498 1-1-14498 1-1-14498 1-1-14498 1-1-14498 1-1-14498 1-1-14498	### Option ### O	de Paraido Sectom Ammuriface Ammuriface Ammuriface Paraido Dissolution Total Dissolution of Di	meter Name sonia-Total (as N) nonia-Total (as N) no	hort Code P gg/f n gg/f n gg/f n Saturation P H units p gg/f n H units p gg/f n H units p CC D GG/f n GG/f n H units p GG/f n	cilligrams per Itre infligrams per Itre er centage Saturation infligrams per Itre infligrams infligrams per infligrams per infligrams per infligrams infligrams infligrams inflig	Result Result 0.028 0.033 104 0.006 8.2 0.057 0.057 103 15.8 15.9 0.054 0.074 118 0.0052 8.2 17.2 0.079 0.0071 8.2 17.2	String OK	0.01 0.00 0.01 1 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005	Report Result 0.028 0.033 104 0.0025 8.2 0.057 0.0025 8.2 103 15.8 15.9 0.054 0.074 118 0.0052 8.2 17.2 0.079 0.0071 8.2	Fext Re- Fext Stri Chi Chi Chi Chi Chi Chi Chi C	Report Limit	01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
North Channel Groat Island	materbody Code SW, 660, 0300	Type Transitional	Code **WINDSON1531E6005 **WINDSON1531E6005 **WINDSON1531E6005 **WINDSON1531E6005 **WINDSON1531E6005 **WINDSON1531E6005 **WINDSON1531E6005 **WINDSON1531E6006	LESSO. East Ferry Quay, Rathcoursey West LESSO. 25 at Ferry Quay, Rathcoursey West	Station Type Operational Operational Operational Operation al	Local Authority Conf. County Council Cark County Council	Code San 21-10097 21-10098 21-10098 21-10098 21-10098 21-10098 21-10097 21-10097 21-10097 21-10097 21-10097 21-10097 21-10097 21-10097 21-10097 21-10097 21-10498 21-14498 21-14498 21-14498 21-14498 21-14498 21-14498	sylve Date Method (1976) 18 (1976) 1	de Parametriace Ammuniface of the pilotottom orthogonation orthogonation of the pilotottom orthogonation orthogona	meter Name S monia-Total (as N) monia-Total (as P) - unspecified monia-Total (as N) moni	hort Code P Registration P Registra	ciligrams per Itre initigrams per initigrams per	Result Result 0.028 0.033 104 <0.00 8.2 0.057 <0.0057 8.2 103 15.8 15.9 0.054 0.074 118 0.0052 8.2 1.7.2 0.079 0.0071 8.2	String OK	Detection 0.01 0.01 1 0.005 2.005 0.005 0.005 1 0.001 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.005	Report Result 0.028 0.033 104 0.0025 8.2 0.057 0.0025 8.2 103 15.8 15.9 0.054 0.074 118 0.0052 8.2 17.2 0.079 0.0071 8.2	Feat Result Strict	Report Limit Lim	01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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