

Annual Environmental Report

2019



Middleton

D0056-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2019 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.

Adjustments made to reduce leaking penstock at Rathcoursey in October 2019 - Works complete

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	Treated	Compliant	N/A

1.4 LICENCE SPECIFIC REPORTING INCLUDED IN AER

Assessment / Report	Included in AER
There are no Licence Specific Reports included in the AER.	

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 MIDLETON WWTP - TREATED 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
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	12	312	88.72
Total Nitrogen mg/l	12	44.9	20.45
COD-Cr mg/l	12	1668	331.45
Hydraulic Capacity	N/A	11652	8505

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'. 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 - TPEFF0500D0056SW001

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 with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	26	N/A	N/A	18.85	Pass
Suspended Solids mg/l	35	87.5	N/A	26	N/A	N/A	1.99	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	26	N/A	N/A	1.61	Pass
Total Nitrogen mg/l	15	18	N/A	26	N/A	N/A	6.31	Pass
pH pH units	9	9	N/A	26	N/A	N/A	8.06	Pass
ortho-Phosphate (as P) - unspecified mg/l	2	2.4	N/A	26	N/A	N/A	0.31	Pass
Ammonia-Total (as N) mg/l	N/A	N/A	N/A	26	N/A	N/A	0.2	
Total Oxidised Nitrogen (as N) mg/l	N/A	N/A	N/A	26	N/A	N/A	3.98	
Faecal coliforms no./100mls	N/A	N/A	N/A	33	N/A	N/A	383.34	

Notes:

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

Cause of Exceedance(s):

Not applicable

Significance of Results:

The WWTP is compliant with the ELV's set in the Wastewater Discharge Licence.

2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT 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 Status
Upstream	185953.57, 69950.87	TW05003153LE6004	No	No	No	No	Moderate
Downstream	185949.64, 68549.06	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 compliant with the ELV's set in the wastewater discharge licence.

The ambient monitoring results does not meet the required EQS. 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 BOD, concentrations downstream of the effluent discharge is noted.

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

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

2.1.4 OPERATIONAL PERFORMANCE SUMMARY - MIDLETON WWTP

2.1.4.1 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)
TP	N/A	N/A	N/A
COD	1025508	59905	94
SS	N/A	6309	N/A
TN	63257	20043	68
cBOD	274495	5120	98

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

2.1.4.2 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.

MIDDLETON WWTP	
Peak Hydraulic Capacity (m ³ /day) - As Constructed	10368
DWF to the Treatment Plant (m ³ /day)	3456
Current Hydraulic Loading - annual max (m ³ /day)	11652
Average Hydraulic loading to the Treatment Plant (m ³ /day)	8505
Organic Capacity (PE) - As Constructed	15000
Organic Capacity (PE) - Collected Load (peak week) ^{Note1}	16261
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.

2.1.5 SLUDGE / OTHER INPUTS - MIDDLETON 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 is included below.

Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints
There were no relevant environmental complaints in 2019.			

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)
Other	Plant or equipment maintenance at WWTP	1	No	Yes
Uncontrolled release	Network Infrastructure	1	Yes	No

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2019	2
Number of Incidents reported to the EPA via EDEN in 2019	2
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	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2019 (No. of events)	Total volume discharged in 2019 (m3)	Monitoring Status
SW04MIDL	188044, 72524	Yes	Low	Not yet Assessed	Unknown	Unknown	Monitored
TBC	188366, 71789	No	Low	Not yet Assessed	Unknown	Unknown	Monitored
SW03MIDL	187974, 73109	Yes	Low	Not yet Assessed	Unknown	Unknown	Monitored
SW07MIDL	187516, 72901	Yes	Low	Not yet Assessed	Unknown	Unknown	Monitored

SWO Summary

How much sewage was discharged via SWOs in the agglomeration in the year (m3)?

516115

Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	Yes
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 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	C	31/12/2011	No	Works Completed		
D0056-SIP:02	Infiltration programme	C	31/12/2011	No	Works Completed		
D0056-SIP:04	Infiltration programme - SW04	C	31/12/2011	No	Works Completed		

D0056-SIP:05	Upgrading of Storm Water Overflows to comply with the limits outlined in Schedule A.4 (Condition 5.6) - SW03	C	31/12/2011	No	At Planning Stage	31/12/2029	Drainage Area Plan Investigation Study to be completed - Completion date refers to DAP
D0056-SIP:03	Infiltration programme - SW03	C	31/12/2011	No	Works Completed		
D0056-SIP:06	Upgrading of Storm Water Overflows to comply with the limits outlined in Schedule A.4 (Condition 5.6) - SW04	C	31/12/2011	No	At Planning Stage	31/12/2029	Drainage Area Plan Investigation Study to be completed - Completion date refers to DAP

A summary of the status of any improvements identified by under Condition 5.2 is included below.

4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
There are no Improvements Programme for this Agglomeration.				

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 Table.

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 list of the various reports required for this agglomeration and a brief summary of their recommendations.

5.a Licence Specific Reports Summary Table

Licence Specific Report	Required by licence	Year included in AER	Included in this AER	Reference to relevant section of AER
Priority Substances Assessment	Yes	2014	No	

5.1 PRIORITY SUBSTANCES ASSESSMENT

The Priority Substances Assessment Report has been included in the AER 2014

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
Is there a need to advise the EPA for consideration of a Technical Amendment / Review of the licence?	N/A
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	N/A
List reason e.g. changes to monitoring requirements	N/A
Have these processes commenced?	N/A
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	Yes

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

Signed: Date: 05/03/2020

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

TROPIC STATUS

EU_CD	Name	Reporting_Period	Extrapolated	Donor_Waterbody	Status	Date
IE_SW_060_0300	North Channel Great Island	2010-2012	null	null	Intermediate	2014-06-29T23:00:00Z

LAND & SOIL WASTE ENVIRONMENT & WELLBEING WATER NATURE SUSTAINABLE ECONOMY

Results

Keep Previous Results

Transitional Water Quality 2010-2012
IE_SW_060_0300

EU_CD	IE_SW_060_0300
Name	North Channel Great Island
Reporting_Period	2010-2012
Extrapolated	
Donor_Waterbody	
Status	Intermediate
Date	2014-06-29T23:00:00Z

EXPORT

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish National Grid Reference (Easting, Northing)	EPA Feature Coding Tool code	Receiving Waters Designation (Yes/No)				Current WFD Status	Mean (mg/l)	
			Bathing Water	Drinking Water	FWPM	Shellfish		cBOD	o-Phosphate (as P)
Ambient Monitoring Point	185953.57, 69950.87	TW05003153LE6004					Moderate	0.650	0.027
Ambient Monitoring Point	185949.64, 68549.06	TW05003153LE6006	No	No	No	No	Moderate	1.910	0.014
Difference								1.260	-0.013
EQS								4.000	0.040
% of EQS								31.500%	-33.250%

WaterbodyCode	MonitoringStationCode	MonitoringStationName	SampleDate	SampleMethod	ParameterName	Parameter Result	LimitOfDe	ReportResult
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Bottom	Ammonia-Total (as N)	mg/l 0.074	0.01	0.074
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Surface	Ammonia-Total (as N)	mg/l 0.082	0.01	0.082
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Bottom	Ammonia-Total (as N)	mg/l 0.045	0.01	0.045
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Surface	Ammonia-Total (as N)	mg/l 0.037	0.01	0.037
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16	TRaC Surface	Ammonia-Total (as N)	mg/l 0.016	0.01	0.016
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16	TRaC Bottom	Ammonia-Total (as N)	mg/l 0.026	0.01	0.026
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55	TRaC Surface	Ammonia-Total (as N)	mg/l 0.063	0.01	0.063
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55	TRaC Bottom	Ammonia-Total (as N)	mg/l 0.028	0.01	0.028
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Surface	BOD - 5 days (Total)	mg/l	1	0.5
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Bottom	BOD - 5 days (Total)	mg/l	1	0.5
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Surface	BOD - 5 days (Total)	mg/l	1	0.5
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Bottom	BOD - 5 days (Total)	mg/l 1.1	1	1.1
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Surface	Chlorophyll	µg/l	1	0.5
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Bottom	Chlorophyll	µg/l	1	0.5
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Surface	Chlorophyll	µg/l 4.4	1	4.4
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Bottom	Chlorophyll	µg/l 3.2	1	3.2
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16	TRaC Surface	Chlorophyll	µg/l 18	1	18
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16	TRaC Bottom	Chlorophyll	µg/l 7.5	1	7.5
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55	TRaC Bottom	Chlorophyll	µg/l 3.7	1	3.7
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55	TRaC Surface	Chlorophyll	µg/l 9.1	1	9.1
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Surface	Depth	m 0		0
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Bottom	Depth	m 8.4		8.4
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Bottom	Depth	m 9.5		9.5
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Surface	Depth	m 0		0
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16	TRaC Bottom	Depth	m 9.5		9.5
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16	TRaC Surface	Depth	m 0		0
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55	TRaC Bottom	Depth	m 8.9		8.9
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55	TRaC Surface	Depth	m 0		0
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Surface	Dissolved Oxygen	% Saturat 94	1	94
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Bottom	Dissolved Oxygen	% Saturat 94	1	94
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Surface	Dissolved Oxygen	% Saturat 107	1	107
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Bottom	Dissolved Oxygen	% Saturat 107	1	107
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16	TRaC Surface	Dissolved Oxygen	% Saturat 139	1	139
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16	TRaC Bottom	Dissolved Oxygen	% Saturat 138	1	138
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55	TRaC Bottom	Dissolved Oxygen	% Saturat 114	1	114
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55	TRaC Surface	Dissolved Oxygen	% Saturat 119	1	119
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Bottom	ortho-Phosphate (as P) - I	mg/l 0.025	0.005	0.025
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Surface	ortho-Phosphate (as P) - I	mg/l 0.027	0.005	0.027
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Surface	ortho-Phosphate (as P) - I	mg/l 0.0057	0.005	0.0057
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Bottom	ortho-Phosphate (as P) - I	mg/l 0.012	0.005	0.012
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16	TRaC Bottom	ortho-Phosphate (as P) - I	mg/l 0.04	0.005	0.04
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16	TRaC Surface	ortho-Phosphate (as P) - I	mg/l	0.005	0.0025
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55	TRaC Surface	ortho-Phosphate (as P) - I	mg/l 0.099	0.005	0.099
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55	TRaC Bottom	ortho-Phosphate (as P) - I	mg/l 0.011	0.005	0.011
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Surface	pH	pH units 7.9	2	7.9
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16	TRaC Bottom	pH	pH units 8	2	8
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Surface	pH	pH units 8.1	2	8.1
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07	TRaC Bottom	pH	pH units 8.1	2	8.1
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16	TRaC Surface	pH	pH units 8.4	2	8.4

IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Bottom	pH	pH units	8.4	2	8.4
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Surface	pH	pH units	8.2	2	8.2
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Bottom	pH	pH units	8.2	2	8.2
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Surface	Salinity	PSU	29.4	0.1	29.4
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Bottom	Salinity	PSU	31.5	0.1	31.5
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Surface	Salinity	PSU	32.8	0.1	32.8
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Bottom	Salinity	PSU	33.2	0.1	33.2
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Surface	Salinity	PSU	32.5	0.1	32.5
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Bottom	Salinity	PSU	32.6	0.1	32.6
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Surface	Salinity	PSU	32.5	0.1	32.5
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Bottom	Salinity	PSU	32.7	0.1	32.7
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Surface	Salinity(Lab)	0/oo	28.8	0.1	28.8
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Bottom	Salinity(Lab)	0/oo	31.2	0.1	31.2
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Surface	Salinity(Lab)	0/oo	32.3	0.1	32.3
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Bottom	Salinity(Lab)	0/oo	32.3	0.1	32.3
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Surface	Salinity(Lab)	0/oo	32.3	0.1	32.3
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Bottom	Salinity(Lab)	0/oo	32.5	0.1	32.5
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Bottom	Salinity(Lab)	0/oo	32.7	0.1	32.7
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Surface	Salinity(Lab)	0/oo	32.4	0.1	32.4
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Bottom	Silica (as SiO2)	mg/l	0.78	0.1	0.78
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Surface	Silica (as SiO2)	mg/l	1.2	0.1	1.2
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Bottom	Silica (as SiO2)	mg/l	0.11	0.1	0.11
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Surface	Silica (as SiO2)	mg/l	0.12	0.1	0.12
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Surface	Silica (as SiO2)	mg/l		0.1	0.05
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Bottom	Silica (as SiO2)	mg/l		0.1	0.05
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Surface	Silica (as SiO2)	mg/l	0.11	0.1	0.11
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Bottom	Silica (as SiO2)	mg/l		0.1	0.05
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Surface	StationDepth	m	8.8	0.1	8.8
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Bottom	StationDepth	m	8.8	0.1	8.8
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Surface	StationDepth	m	10	0.1	10
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Bottom	StationDepth	m	10	0.1	10
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Bottom	StationDepth	m	9.7	0.1	9.7
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Surface	StationDepth	m	9.7	0.1	9.7
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Surface	StationDepth	m	9.3	0.1	9.3
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Bottom	StationDepth	m	9.3	0.1	9.3
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Bottom	Temperature	°C	9.5		9.5
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Surface	Temperature	°C	8.9		8.9
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Surface	Temperature	°C	13		13
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Bottom	Temperature	°C	12.6		12.6
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Surface	Temperature	°C	17.4		17.4
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Bottom	Temperature	°C	17.4		17.4
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Bottom	Temperature	°C	15.8		15.8
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Surface	Temperature	°C	16.2		16.2
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Surface	Total Oxidised Nitrogen (mg/l		1	0.01	1
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Bottom	Total Oxidised Nitrogen (mg/l		0.57	0.01	0.57
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Surface	Total Oxidised Nitrogen (mg/l		0.062	0.01	0.062
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Bottom	Total Oxidised Nitrogen (mg/l		0.074	0.01	0.074
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Surface	Total Oxidised Nitrogen (mg/l		0.024	0.01	0.024
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Bottom	Total Oxidised Nitrogen (mg/l		0.032	0.01	0.032
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Surface	Total Oxidised Nitrogen (mg/l		0.027	0.01	0.027

IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Bottom	Total Oxidised Nitrogen (mg/l	0.021	0.01	0.021
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Surface	Transparency m	1.8		1.8
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	17/01/2019 14:16 TRaC Bottom	Transparency m	1.8		1.8
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Bottom	Transparency m	3		3
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	13/06/2019 16:07 TRaC Surface	Transparency m	3		3
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Bottom	Transparency m	1.3		1.3
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	09/07/2019 09:16 TRaC Surface	Transparency m	1.3		1.3
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Surface	Transparency m	2.6		2.6
IE_SW_060_0300	TW05003153LE6004	LE450 - North Channel, Bagwells Hill	26/08/2019 13:55 TRaC Bottom	Transparency m	2.6		2.6

WaterbodyCode	MonitoringStationCode	MonitoringStationName	SampleDate	SampleMethod	ParameterName	ParameterUnitSI	Result	LimitOfDetection	ReportResult
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Bottom	Ammonia-Total (as N mg/l)		0.077	0.01	0.077
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Surface	Ammonia-Total (as N mg/l)		0.09	0.01	0.09
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Surface	Ammonia-Total (as N mg/l)		0.029	0.01	0.029
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Bottom	Ammonia-Total (as N mg/l)		0.032	0.01	0.032
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11	TRaC Surface	Ammonia-Total (as N mg/l)		0.032	0.01	0.032
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11	TRaC Bottom	Ammonia-Total (as N mg/l)		0.027	0.01	0.027
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20	TRaC Surface	Ammonia-Total (as N mg/l)		0.028	0.01	0.028
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20	TRaC Bottom	Ammonia-Total (as N mg/l)		0.032	0.01	0.032
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Surface	BOD - 5 days (Total)	mg/l		1	0.5
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Bottom	BOD - 5 days (Total)	mg/l		1	0.5
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Surface	BOD - 5 days (Total)	mg/l	1.1	1	1.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Bottom	BOD - 5 days (Total)	mg/l	1.1	1	1.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Surface	Chlorophyll	µg/l		1	0.5
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Bottom	Chlorophyll	µg/l	2.1	1	2.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Bottom	Chlorophyll	µg/l	1.9	1	1.9
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Surface	Chlorophyll	µg/l	4.7	1	4.7
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11	TRaC Surface	Chlorophyll	µg/l	21	1	21
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11	TRaC Bottom	Chlorophyll	µg/l	16	1	16
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20	TRaC Surface	Chlorophyll	µg/l	5.4	1	5.4
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Surface	Depth	m	0		0
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Bottom	Depth	m	2.8		2.8
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Bottom	Depth	m	3.1		3.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Surface	Depth	m	0		0
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11	TRaC Surface	Depth	m	0		0
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11	TRaC Bottom	Depth	m	3		3
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20	TRaC Surface	Depth	m	0		0
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20	TRaC Bottom	Depth	m	2.6		2.6
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Bottom	Dissolved Oxygen	% Saturation	100	1	100
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Surface	Dissolved Oxygen	% Saturation	94	1	94
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Surface	Dissolved Oxygen	% Saturation	108	1	108
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Bottom	Dissolved Oxygen	% Saturation	105	1	105
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11	TRaC Surface	Dissolved Oxygen	% Saturation	143	1	143
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11	TRaC Bottom	Dissolved Oxygen	% Saturation	142	1	142
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20	TRaC Surface	Dissolved Oxygen	% Saturation	126	1	126
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20	TRaC Bottom	Dissolved Oxygen	% Saturation	120	1	120
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Surface	ortho-Phosphate (as mg/l)		0.031	0.005	0.031
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Bottom	ortho-Phosphate (as mg/l)		0.027	0.005	0.027
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Surface	ortho-Phosphate (as mg/l)			0.005	0.0025
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Bottom	ortho-Phosphate (as mg/l)			0.005	0.0025
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11	TRaC Surface	ortho-Phosphate (as mg/l)			0.005	0.0025
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11	TRaC Bottom	ortho-Phosphate (as mg/l)			0.005	0.0025
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20	TRaC Bottom	ortho-Phosphate (as mg/l)		0.011	0.005	0.011
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20	TRaC Surface	ortho-Phosphate (as mg/l)		0.0055	0.005	0.0055
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Surface	pH	pH units	7.9	2	7.9
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25	TRaC Bottom	pH	pH units	8	2	8
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Surface	pH	pH units	8.1	2	8.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49	TRaC Bottom	pH	pH units	8.1	2	8.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11	TRaC Surface	pH	pH units	8.4	2	8.4
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11	TRaC Bottom	pH	pH units	8.4	2	8.4

IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Surface	pH	pH units	8.3	2	8.3
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Bottom	pH	pH units	8.2	2	8.2
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Bottom	Salinity	PSU	31.2	0.1	31.2
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Surface	Salinity	PSU	30	0.1	30
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Surface	Salinity	PSU	33	0.1	33
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Bottom	Salinity	PSU	33.1	0.1	33.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Bottom	Salinity	PSU	32.6	0.1	32.6
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Surface	Salinity	PSU	32.5	0.1	32.5
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Surface	Salinity	PSU	32.4	0.1	32.4
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Bottom	Salinity	PSU	32.5	0.1	32.5
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Surface	Salinity(Lab)	0/oo	21.3	0.1	21.3
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Bottom	Salinity(Lab)	0/oo	31	0.1	31
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Surface	Salinity(Lab)	0/oo	32.3	0.1	32.3
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Bottom	Salinity(Lab)	0/oo	32.3	0.1	32.3
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Surface	Salinity(Lab)	0/oo	32.3	0.1	32.3
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Bottom	Salinity(Lab)	0/oo	32.5	0.1	32.5
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Bottom	Salinity(Lab)	0/oo	32.4	0.1	32.4
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Surface	Salinity(Lab)	0/oo	32.3	0.1	32.3
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Bottom	Silica (as SiO2)	mg/l	0.82	0.1	0.82
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Surface	Silica (as SiO2)	mg/l	2.5	0.1	2.5
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Surface	Silica (as SiO2)	mg/l	0.1	0.1	0.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Bottom	Silica (as SiO2)	mg/l	0.1	0.1	0.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Surface	Silica (as SiO2)	mg/l		0.1	0.05
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Bottom	Silica (as SiO2)	mg/l		0.1	0.05
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Surface	Silica (as SiO2)	mg/l	0.1	0.1	0.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Bottom	Silica (as SiO2)	mg/l	0.1	0.1	0.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Surface	StationDepth	m	3.1	0.1	3.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Bottom	StationDepth	m	3.1	0.1	3.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Surface	StationDepth	m	3.4	0.1	3.4
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Bottom	StationDepth	m	3.4	0.1	3.4
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Surface	StationDepth	m	3.2	0.1	3.2
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Bottom	StationDepth	m	3.2	0.1	3.2
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Bottom	StationDepth	m	3	0.1	3
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Surface	StationDepth	m	3	0.1	3
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Surface	Temperature	°C	9.2		9.2
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Bottom	Temperature	°C	9.4		9.4
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Surface	Temperature	°C	12.8		12.8
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Bottom	Temperature	°C	12.8		12.8
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Surface	Temperature	°C	17.6		17.6
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Bottom	Temperature	°C	17.6		17.6
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Surface	Temperature	°C	16.8		16.8
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Bottom	Temperature	°C	16.3		16.3
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Surface	Total Oxidised Nitrog	mg/l		0.01	
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Bottom	Total Oxidised Nitrog	mg/l	0.61	0.01	0.61
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Surface	Total Oxidised Nitrog	mg/l	0.067	0.01	0.067
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Bottom	Total Oxidised Nitrog	mg/l	0.043	0.01	0.043
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Surface	Total Oxidised Nitrog	mg/l		0.01	0.005
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Bottom	Total Oxidised Nitrog	mg/l	0.015	0.01	0.015
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Bottom	Total Oxidised Nitrog	mg/l	0.026	0.01	0.026
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Surface	Total Oxidised Nitrog	mg/l	0.028	0.01	0.028

IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Surface	Transparency	m	2.1	2.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	17/01/2019 14:25 TRaC Bottom	Transparency	m	2.1	2.1
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Bottom	Transparency	m	2.4	2.4
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	13/06/2019 14:49 TRaC Surface	Transparency	m	2.4	2.4
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Surface	Transparency	m	1.5	1.5
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	09/07/2019 10:11 TRaC Bottom	Transparency	m	1.5	1.5
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Surface	Transparency	m	2.2	2.2
IE_SW_060_0300	TW05003153LE6005	LE540 - Ballynacorra Est, Rathcoursey	26/08/2019 15:20 TRaC Bottom	Transparency	m	2.2	2.2

WaterbodyCode	MonitoringStationCode	MonitoringStationName	SampleDate	SampleMethod	ParameterName	ParameterUnitSh	Result	LimitOfDetect	ReportResult
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Surface	Ammonia-Total (as N)	mg/l	0.075	0.01	0.075
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Bottom	Ammonia-Total (as N)	mg/l	0.075	0.01	0.075
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Bottom	Ammonia-Total (as N)	mg/l	0.025	0.01	0.025
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Surface	Ammonia-Total (as N)	mg/l	0.021	0.01	0.021
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Surface	Ammonia-Total (as N)	mg/l	0.046	0.01	0.046
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Bottom	Ammonia-Total (as N)	mg/l	0.056	0.01	0.056
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Surface	Ammonia-Total (as N)	mg/l	0.039	0.01	0.039
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Bottom	Ammonia-Total (as N)	mg/l	0.04	0.01	0.04
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Surface	BOD - 5 days (Total)	mg/l		1	0.5
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Bottom	BOD - 5 days (Total)	mg/l		1	0.5
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Bottom	BOD - 5 days (Total)	mg/l	1.2	1	1.2
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Surface	BOD - 5 days (Total)	mg/l	1.1	1	1.1
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Bottom	BOD - 5 days (Total)	mg/l	3.5	1	3.5
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Surface	BOD - 5 days (Total)	mg/l	3.7	1	3.7
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Surface	BOD - 5 days (Total)	mg/l	2.9	1	2.9
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Bottom	Chlorophyll	µg/l		1	0.5
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Surface	Chlorophyll	µg/l	1.2	1	1.2
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Surface	Chlorophyll	µg/l	3.5	1	3.5
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Bottom	Chlorophyll	µg/l	1.7	1	1.7
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Surface	Chlorophyll	µg/l	12	1	12
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Bottom	Chlorophyll	µg/l	16	1	16
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Bottom	Chlorophyll	µg/l	2.7	1	2.7
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Surface	Chlorophyll	µg/l	2.9	1	2.9
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Surface	Depth	m	0		0
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Bottom	Depth	m	9.8		9.8
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Surface	Depth	m	0		0
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Bottom	Depth	m	11.2		11.2
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Surface	Depth	m	0		0
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Bottom	Depth	m	4		4
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Surface	Depth	m	0		0
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Bottom	Depth	m	0		0
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Surface	Dissolved Oxygen	% Saturation	94	1	94
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Bottom	Dissolved Oxygen	% Saturation	94	1	94
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Bottom	Dissolved Oxygen	% Saturation	108	1	108
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Surface	Dissolved Oxygen	% Saturation	108	1	108
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Surface	Dissolved Oxygen	% Saturation	140	1	140
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Bottom	Dissolved Oxygen	% Saturation	140	1	140
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Surface	Dissolved Oxygen	% Saturation	120	1	120
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Bottom	Dissolved Oxygen	% Saturation	115	1	115
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Surface	ortho-Phosphate (as P) - ur	mg/l	0.026	0.005	0.026
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Bottom	ortho-Phosphate (as P) - ur	mg/l	0.025	0.005	0.025
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Surface	ortho-Phosphate (as P) - ur	mg/l		0.005	0.0025
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Bottom	ortho-Phosphate (as P) - ur	mg/l	0.005	0.005	0.005
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Surface	ortho-Phosphate (as P) - ur	mg/l	0.0094	0.005	0.0094
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Bottom	ortho-Phosphate (as P) - ur	mg/l	0.021	0.005	0.021
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Bottom	ortho-Phosphate (as P) - ur	mg/l		0.005	0.0025
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Surface	ortho-Phosphate (as P) - ur	mg/l	0.018	0.005	0.018
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Bottom	pH	pH units	8	2	8
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Surface	pH	pH units	8	2	8

IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Bottom	pH	pH units	8.1	2	8.1
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Surface	pH	pH units	8.1	2	8.1
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Surface	pH	pH units	8.4	2	8.4
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Bottom	pH	pH units	8.4	2	8.4
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Bottom	pH	pH units	8.2	2	8.2
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Surface	pH	pH units	8.1	2	8.1
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Bottom	Salinity	PSU	31.6	0.1	31.6
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Surface	Salinity	PSU	31.6	0.1	31.6
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Surface	Salinity	PSU	33.2	0.1	33.2
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Bottom	Salinity	PSU	33.3	0.1	33.3
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Surface	Salinity	PSU	32.6	0.1	32.6
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Bottom	Salinity	PSU	32.6	0.1	32.6
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Surface	Salinity	PSU	32.6	0.1	32.6
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Bottom	Salinity	PSU	32.4	0.1	32.4
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Surface	Salinity(Lab)	0/oo	30.7	0.1	30.7
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Bottom	Salinity(Lab)	0/oo	31.2	0.1	31.2
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Bottom	Salinity(Lab)	0/oo	32.3	0.1	32.3
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Surface	Salinity(Lab)	0/oo	32.3	0.1	32.3
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Surface	Salinity(Lab)	0/oo	32.4	0.1	32.4
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Bottom	Salinity(Lab)	0/oo	32.4	0.1	32.4
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Surface	Salinity(Lab)	0/oo	32.5	0.1	32.5
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Bottom	Salinity(Lab)	0/oo	32.7	0.1	32.7
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Bottom	Silica (as SiO2)	mg/l	0.75	0.1	0.75
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Surface	Silica (as SiO2)	mg/l	0.82	0.1	0.82
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Surface	Silica (as SiO2)	mg/l	0.11	0.1	0.11
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Bottom	Silica (as SiO2)	mg/l	0.12	0.1	0.12
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Surface	Silica (as SiO2)	mg/l		0.1	0.05
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Bottom	Silica (as SiO2)	mg/l		0.1	0.05
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Bottom	Silica (as SiO2)	mg/l		0.1	0.05
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Surface	Silica (as SiO2)	mg/l		0.1	0.05
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Surface	StationDepth	m	10.5	0.1	10.5
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Bottom	StationDepth	m	10.5	0.1	10.5
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Bottom	StationDepth	m	11.5	0.1	11.5
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Surface	StationDepth	m	11.5	0.1	11.5
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Surface	StationDepth	m	4.2	0.1	4.2
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Bottom	StationDepth	m	4.2	0.1	4.2
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Surface	StationDepth	m	11	0.1	11
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Bottom	StationDepth	m	11	0.1	11
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Bottom	Temperature	°C	9.7		9.7
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Surface	Temperature	°C	9.6		9.6
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Bottom	Temperature	°C	12.6		12.6
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Surface	Temperature	°C	12.6		12.6
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Bottom	Temperature	°C	17.5		17.5
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52	TRaC Surface	Temperature	°C	17.5		17.5
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Surface	Temperature	°C	15.8		15.8
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46	TRaC Bottom	Temperature	°C	18.4		18.4
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Surface	Total Oxidised Nitrogen (as mg/l)		0.64	0.01	0.64
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23	TRaC Bottom	Total Oxidised Nitrogen (as mg/l)		0.54	0.01	0.54
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Surface	Total Oxidised Nitrogen (as mg/l)		0.024	0.01	0.024
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45	TRaC Bottom	Total Oxidised Nitrogen (as mg/l)		0.072	0.01	0.072

IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52 TRaC Surface	Total Oxidised Nitrogen (as mg/l)		0.01	0.005
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52 TRaC Bottom	Total Oxidised Nitrogen (as mg/l)	0.022	0.01	0.022
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46 TRaC Surface	Total Oxidised Nitrogen (as mg/l)	0.036	0.01	0.036
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46 TRaC Bottom	Total Oxidised Nitrogen (as mg/l)	0.03	0.01	0.03
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23 TRaC Surface	Transparency	m	2	2
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	17/01/2019 13:23 TRaC Bottom	Transparency	m	2	2
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45 TRaC Bottom	Transparency	m	2.8	2.8
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	13/06/2019 13:45 TRaC Surface	Transparency	m	2.8	2.8
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52 TRaC Surface	Transparency	m	1.8	1.8
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	09/07/2019 08:52 TRaC Bottom	Transparency	m	1.8	1.8
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46 TRaC Bottom	Transparency	m	2.1	2.1
IE_SW_060_0300	TW05003153LE6006	LE550 - East Ferry Quay, Rathcoursey West	26/08/2019 12:46 TRaC Surface	Transparency	m	2.1	2.1