Annual Environmental Report 2021



Kinsale

D0132-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2021 AER

This Annual Environmental Report has been prepared for D0132-01, Kinsale, 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)

KINSALE WWTP with a Plant Capacity PE of 12500,* the treatment type is 3NP - Tertiary N&P removal

Plant Capacity PE was increased in 2021 based on a review by Irish Water Asset Planning.

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
TPEFF0500D0132SW001	KINSALE WWTP	Treated	Non-Compliant	Ammonia-Total (as N) mg/l BOD, 5 days with Inhibition (Carbonaceo mg/l COD-Cr mg/l ortho-Phosphate (as P) - unspecified mg/l Suspended Solids mg/l

1.4 LICENCE SPECIFIC REPORTING

Assessment / Report

There are no Licence Specific Reports included in this AER.

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1 KINSALE WWTP - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - KINSALE 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	
COD-Cr mg/l	8	1466	608	
ortho-Phosphate (as P) - unspecified mg/l	7	1.43	0.916	
Ammonia-Total (as N) mg/l	3	36	19	
Suspended Solids mg/l	8	394	132	
BOD, 5 days with Inhibition (Carbonaceo mg/l	8	178	90	
Hydraulic Capacity	N/A	10140	3513	

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 - TPEFF0500D0132SW001

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	16	5	3	230	Fail
Suspended Solids mg/l	35	87.5	N/A	16	2	2	62	Fail
BOD, 5 days with Inhibition (Carbonaceo mg/l	20	40	N/A	14	2	2	31	Fail
Total Oxidised Nitrogen (as N) mg/l	10	12	N/A	14	N/A	N/A	1.21	Pass
pH pH units	9.00	9.00	N/A	16	N/A	N/A	7.51	Pass
Ammonia-Total (as N) mg/l	5.00	6.00	N/A	15	10	8	5.31	Fail
ortho-Phosphate (as P) - unspecified mg/l	1.00	1.20	N/A	16	4	4	0.658	Fail
Benzo(g,h,i)perylene μg/l	N/A	N/A	N/A	2	N/A	N/A	N/A	
1,2-Dichloroethane µg/l	N/A	N/A	N/A	2	N/A	N/A	N/A	
Faecal coliforms no./100mls	N/A	N/A	N/A	12	N/A	N/A	1627	

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)
Hexachlorobenzene µg/l	N/A	N/A	N/A	2	N/A	N/A	N/A	
Enterococci (Intestinal) no./100mls	N/A	N/A	N/A	12	N/A	N/A	3654	
gamma-BHC / HCH (Lindane) 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	2	N/A	N/A	N/A	
Beta-BHC /Beta-HCH µg/l	N/A	N/A	N/A	1	N/A	N/A	N/A	
Tetrachloroethylene µg/l	N/A	N/A	N/A	2	N/A	N/A	N/A	
Trichlorobenzene (all isomers) µg/l	N/A	N/A	N/A	2	N/A	N/A	N/A	
Benzo(b)fluoranthene µg/l	N/A	N/A	N/A	2	N/A	N/A	N/A	
alpha BHC / Alpha- HCH µg/l	N/A	N/A	N/A	2	N/A	N/A	N/A	
E. Coli no./100mls	N/A	N/A	N/A	12	N/A	N/A	4668	
Benzo(k)fluoranthene µg/l	N/A	N/A	N/A	2	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)
Chloride mg/l	N/A	N/A	N/A	4	N/A	N/A	8081	
Benzo(a)pyrene μg/l	N/A	N/A	N/A	2	N/A	N/A	N/A	
Isodrin µg/I	N/A	N/A	N/A	2	N/A	N/A	N/A	
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	16	N/A	N/A	0.880	
Trichloroethene (all isomers) µg/l	N/A	N/A	N/A	2	N/A	N/A	N/A	
Total Nitrogen mg/l	N/A	N/A	N/A	16	N/A	N/A	9.78	
Sum 3_IWW: HCHs µg/I	N/A	N/A	N/A	1	N/A	N/A	N/A	

Notes:

Cause of Exceedance(s):

WwTP biological stage not operating at capacity, investigations into source of issue have commenced.

Significance of Results:

The WWTP is not compliant with the ELV's set in the Wastewater Discharge Licence. The impact on receiving waters is assessed further in Section 2.

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

^{2 -} For pH the WWDA specifies a range of pH 6 - 9

2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF0500D0132SW001

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	163204, 49049	TW05003167BN2007	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 not 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.

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

2.1.4 OPERATIONAL PERFORMANCE SUMMARY - KINSALE WWTP

2.1.4.1 Treatment Efficiency Report - KINSALE 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)	
TN	N/A	13258	N/A	
ТР	N/A	1194	N/A	
COD	786256	311730	60	
cBOD	116835	43059	63	
ss	170919	84405	51	

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

2.1.4.2 Treatment Capacity Report Summary - KINSALE 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.

KINSALE WWTP						
Peak Hydraulic Capacity (m³/day) - As Constructed						
DWF to the Treatment Plant (m³/day)	2205					
Current Hydraulic Loading - annual max (m³/day)						
Average Hydraulic loading to the Treatment Plant (m³/day)	3513					
Organic Capacity (PE) - As Constructed	12500					
Organic Capacity (PE) - Collected Load (peak week)Note1	9005					
Organic Capacity (PE) - Remaining	3495					

Will the capacity be exceeded in the next three years? (Yes/No) No

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

2.1.5 SLUDGE / OTHER INPUTS - KINSALE 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 maintenance at WWTP	1	No	Yes
Breach of ELV	Shock load to the WWTP	1	Yes	No
Breach of ELV	Inadequate Operational Procedures / Training	1	No	Yes

Incident Type	Cause	No. of incident occurrences	Recurring (Y/N)	Closed (Y/N)
Other	WWTP biological sludge issue	1	No	No

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer				
Number of Incidents in 2021	4				
lumber of Incidents reported to the EPA via EDEN in 2021					
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	164168, 50069	No	Low	Low Meeting Unknown		Unknown	Not Monitored
твс	163040, 49566	No	Low Meeting Unknown Unknown		Monitored		
твс	164249, 49705	No	Low	Meeting Unknown Unknown		Unknown	Not Monitored
твс	164234, 49812	No	Medium	Medium Not Meeting Unknown Unknown		Monitored	
SW003	164251, 50249	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
SW004	164253, 50250	Yes	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
SW2	165479, 49762	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
SW6	164237, 49704	Yes	Low	Meeting	Unknown	Unknown	Not Monitored

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

SWO Summary	
How much sewage was discharged via SWOs in the agglomeration in the year (m3)?	Unknown
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	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?	Yes

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			
There are no Specified Improvement Programmes for this Agglomeration.										

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

4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
No additional improve	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	2015	No

6 CERTIFICATION AND SIGN OFF

6.1 SUMMARY OF AER CONTENTS

Parameter	Answer
Does the AER include an Executive Summary?	Yes
Does the AER include an assessment of the performance of the Waste Water Works (i.e. have the results of assessments been interpreted against WWDL requirements and or Environmental Quality Standards)?	Yes
Has a Technical amendment/licence review application been submitted to the Agency by IW?	Yes
List reason e.g. additional SWO identified	To include additional SWOs identified
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	No
List reason e.g. changes to monitoring requirements	N/A
Have these processes commenced?	Yes
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	N/A

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

Date: 28/04/2022

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

Katherine Walshe

Acting Head of Environmental Regulation

7 APPENDIX

Appendix

Appendix 7.1 - Ambient monitoring summary

Ambeint Monitoring Results & Data

			Designations			Designations			o-Phosphate (as P)	Ammonia (as N)
Ambient monitoring point/Coastal			Bathing	Drinking						
Monitoring Code	Irish Grid Reference	Bathing Water	Water	Water	FWPM	Shellfish	WFD Status	Results	Results	Results
Upstream Monitoring Point	161854.74, 50048.75	TW05003167BN2006					Moderate	1.28	0.0158	0.038
Downstream Monitoring Point	163204.61, 49048.98	TW05003167BN2007	No	No	Yes	No	Moderate	1.16	0.0123	0.0324
Difference								-0.12	-0.0035	-0.0056
EQS								4	0.04	N/A
% of EQS								-3	-8.75	

Unstream Monitoring

Upstream Monitoring													
WaterbodyName	WaterbodyCode				SampleMe ParameterNe ParameterU			extResult			eportRes ReportTe		
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006			TRaC Botti Ammonia-To mg/l TRaC Surfa Ammonia-To mg/l	milligrams milligrams	0.015 0.014		OK OK	0.01	0.015 0.014	OK OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006		01/07/2021	TRaC Botti Ammonia-To mg/l	milligrams	0.055		ОК	0.01	0.055	ОК	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa Ammonia-To mg/l TRaC Surfa Ammonia-To mg/l	milligrams milligrams	0.046		OK OK	0.01	0.046	OK OK	0.01 0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	25/08/2021	TRaC Botti Ammonia-To mg/l	milligrams	0.042		OK	0.01	0.042	OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa Ammonia-To mg/l TRaC Botti BOD - 5 days mg/l	milligrams milligrams	0.062 1.4		OK OK	0.01	0.062 1.4	OK OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	01/07/2021	TRaC Botti BOD - 5 days mg/l	milligrams	1.1		OK	1	1.1	OK	1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa BOD - 5 days mg/l TRaC Botti BOD - 5 days mg/l	milligrams milligrams	1.4 2		OK OK	1	1.4 2	OK OK	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	01/11/2021	TRaC Surfa BOD - 5 days mg/l	milligrams per litre	<1	ı	OK	1	0.5 <1	OK	1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa Chlorophyll a µg/l TRaC Surfa Chlorophyll a µg/l	Microgram Microgram	8.4 0.36		OK OK	0.01	8.4 0.36	OK OK	0.01 0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	25/08/2021	TRaC Surfa Depth m	Metres	0		ОК		0	OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi	,	TRaC Surfa Chlorophyll a µg/l TRaC Surfa Depth m	Microgram Metres	12 0.3		OK OK	0.01	12 0.3	OK OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	01/11/2021	TRaC Surfa Depth m	Metres	0		ОК		0	OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006			TRaC Botti Depth m TRaC Surfi Depth m	Metres Metres	5.5 0.3		OK OK		5.5 0.3	OK OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	01/07/2021	TRaC Botti Depth m	Metres	5.8		OK		5.8	OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Botti Depth m TRaC Botti Depth m	Metres Metres	5 4.5		OK OK		5 4.5	OK OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006			TRaC Surfa Dissolved Ox % Saturation		103		OK	1	103	OK	1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Botti Dissolved Oxi % Saturation TRaC Botti Dissolved Oxi % Saturation		102 86		OK OK	1	102 86	OK OK	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	01/11/2021	TRaC Botti ortho-Phospl mg/l	milligrams	0.03		ОК	0.005	0.03	OK	0.005
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Botti ortho-Phospi mg/l TRaC Surfi ortho-Phospi mg/l	milligrams per litre milligrams per litre		0.005	OK OK	0.005	0.0025 <0.005 0.0025 <0.005	OK OK	0.005 0.005
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	17/05/2021	TRaC Botti Dissolved Ox % Saturation		107		OK	1	107	OK	1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa ortho-Phospl mg/l TRaC Botti ortho-Phospl mg/l	milligrams milligrams	0.013 0.015		OK OK	0.005	0.013 0.015	OK OK	0.005 0.005
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi		TRaC Botti pH pH units	pH Units	8.2		OK	2	8.2	OK	2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006			TRaC Surfa pH pH units TRaC Botti pH pH units	pH Units pH Units	8		OK OK	2	8	OK OK	2 2
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006			TRaC Surfa Pheophytin a µg/I	Microgram	0.28		OK	0.01	0.28	OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surf: Pheophytin a µg/I	Microgram	1.3 1.5		OK OK	0.01	1.3 1.5	OK OK	0.01 0.01
Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006	BN080 - Whi		TRaC Surfa Pheophytin a Aug/I TRaC Surfa Salinity PSU	Microgram Practical sa	22.1		OK	0.01	22.1	OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi BN080 - Whi	01/07/2021	TRaC Botti ortho-Phospl mg/l	milligrams	0.011		OK	0.005	0.011 29.6	OK	0.005
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi		TRaC Surfa Salinity PSU TRaC Surfa ortho-Phospi mg/l	Practical sa milligrams	29.6 0.045		OK OK	0.1	0.045	OK OK	0.1 0.005
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi		TRaC Botti Salinity PSU	Practical sa	29		OK	0.1	29	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006			TRaC Botti Salinity PSU TRaC Botti Salinity(Lab) 0/oo	Practical sa 0/00	31.6 32.3		OK OK	0.1	31.6 32.3	OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi		TRaC Surfa pH pH units	pH Units	8.3		OK	2	8.3	OK	2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa Salinity(Lab) 0/oo TRaC Surfa Pheophytin a µg/I	0/oo Microgran	19.8 1.8		OK OK	0.1	19.8 1.8	OK OK	0.1 0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006		01/11/2021	TRaC Surfa Salinity(Lab) 0/00	0/00	12.3		ОК	0.1	12.3	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006			TRaC Botti Salinity(Lab) 0/oo TRaC Surfi Silica (as SiO2 mg/l	0/oo milligrams	27 0.61		OK OK	0.1 0.1	27 0.61	OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	25/08/2021	TRaC Botti Silica (as SiO2 mg/l	milligrams	0.18		ОК	0.1	0.18	ОК	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa Salinity PSU TRaC Surfa Silica (as SiO2 mg/l	Practical sa milligrams	11.3 2.4		OK OK	0.1	11.3 2.4	OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	01/07/2021	TRaC Botti StationDepth m	Metres	5.9		OK	0.1	5.9	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006			TRaC Botti StationDepth m TRaC Surfi StationDepth m	Metres Metres	5.6 5		OK OK	0.1 0.1	5.6 5	OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	01/11/2021	TRaC Botti StationDepth m	Metres	5		ОК	0.1	5	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006			TRaC Surfa Salinity(Lab) 0/oo TRaC Botta Salinity(Lab) 0/oo	0/oo 0/oo	29.1 28.7		OK OK	0.1	29.1 28.7	OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	17/05/2021	TRaC Botti Temperature °C	Degrees c€	12		ОК		12	ОК	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa Temperature °C TRaC Botti Temperature °C	Degrees c∉ Degrees c∉	17.4 12.3		OK OK		17.4 12.3	OK OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	01/07/2021	TRaC Botti Temperature °C	Degrees ce	16.3		OK		16.3	OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006			TRaC Surfa Temperature A°C TRaC Surfa Temperature A°C	Degrees ce Degrees ce	17.2 10.8		OK OK		17.2 10.8	OK OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	17/05/2021	TRaC Bottı Silica (as SiO2 mg/l	milligrams	0.37		ОК	0.1	0.37	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006			TRaC Botti Silica (as SiO2 mg/l TRaC Surfa Silica (as SiO2 mg/l	milligrams per litre milligrams	0.25	0.1	OK OK	0.1	0.05 < 0.1 0.25	OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006		01/11/2021	TRaC Bottı Silica (as SiO2 mg/l	milligrams	1.1		OK	0.1	1.1	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi	.,	TRaC Botti StationDepth m TRaC Surfi StationDepth m	Metres Metres	5 5		OK OK	0.1	5 5	OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	01/07/2021	TRaC Surfa Total Oxidise mg/l	milligrams	0.2		OK	0.01	0.2	ОК	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006			TRaC Surfa Total Oxidise mg/l TRaC Surfa Total Oxidise mg/l	milligrams milligrams	1.6 0.081		OK OK	0.01	1.6 0.081	OK OK	0.01 0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006		25/08/2021	TRaC Botti Temperature °C	Degrees ce	17		OK	0.01	17	OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa Transparency m TRaC Botti Transparency m	Metres Metres	0.8		OK OK		0.8	OK OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi		TRaC Botti Transparenc _i m	Metres	1.5		OK		1.5	OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa Transparency m TRaC Surfa Total Oxidise mg/l	Metres	0.5 0.47		OK	0.01	0.5	OK OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi	01/11/2021	TRaC Botti Total Oxidise mg/l	milligrams milligrams	0.47 0.55		OK OK	0.01	0.47 0.55	OK OK	0.01 0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006			TRaC Botti Transparency m	Metres	2		OK		2	OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa Transparency m TRaC Botti Transparency m	Metres Metres	2 0.5		OK OK		2 0.5	OK OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	01/11/2021	TRaC Botti Ammonia-To mg/I	milligrams	0.042		OK	0.01	0.042	OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa BOD - 5 days mg/l TRaC Botti BOD - 5 days mg/l	milligrams milligrams per litre	2.1	ı	OK OK	1	2.1 0.5 <1	OK OK	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi		TRaC Surfa Chlorophyll a µg/I	Microgram	1.7		ОК	0.01	1.7	OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa Dissolved Ox: % Saturation TRaC Botti Dissolved Ox: % Saturation		111 106		OK OK	1	111 106	OK OK	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi		TRaC Surfa Dissolved Ox % Saturation		115		OK	1	115	OK	1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa Dissolved Ox % Saturation TRaC Surfa ortho-Phospi mg/l	Percentage milligrams	86 0.0074		OK OK	0.005	86 0.0074	OK OK	0.005
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	17/05/2021	TRaC Botti pH pH units	pH Units	8.2		ОК	2	8.2	OK	2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa pH pH units TRaC Surfa pH pH units	pH Units pH Units	8.3 7.6		OK OK	2	8.3 7.6	OK OK	2
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	01/11/2021	TRaC Botti pH pH units	pH Units	7.8		OK	2	7.8	ОК	2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Botti Salinity PSU TRaC Botti Salinity PSU	Practical sa Practical sa	31.3 33.3		OK OK	0.1	31.3 33.3	OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	25/08/2021	TRaC Surfa Salinity PSU	Practical sa	27.7		ОК	0.1	27.7	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Botti Salinity(Lab) 0/oo TRaC Surfi Salinity(Lab) 0/oo	0/oo 0/oo	25 27.2		OK OK	0.1	25 27.2	OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	01/07/2021	TRaC Surfa Silica (as SiO2 mg/l	milligrams	0.13		ОК	0.1	0.13	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Surfa StationDepth m	Metres Metres	5.6 5.9		OK OK	0.1 0.1	5.6	OK OK	0.1 0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	17/05/2021	TRaC Surfi StationDepth m TRaC Surfi Temperature °C	Degrees c€	13.3		OK		5.9 13.3	OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006 TW05003167BN2006	BN080 - Whi BN080 - Whi		TRaC Botti Total Oxidise mg/l TRaC Botti Total Oxidise mg/l	milligrams milligrams	0.21 0.051		OK OK	0.01	0.21 0.051	OK OK	0.01 0.01
Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	25/08/2021	TRaC Botti Total Oxidise mg/l	milligrams milligrams	0.13		OK	0.01	0.051	OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2006	BN080 - Whi	17/05/2021	TRaC Surfa Transparency m	Metres	1.5		OK		1.5	OK	

Downstream Monitoring														
WaterbodyName	WaterbodyCode	MonitoringStationCod						Parameter Result	TextResult	ResultStrir L	imitOfDe	ReportRes Report	ex Repo	rtRes ReportLimit
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007				Ammonia-To		milligrams milligrams	0.044 0.023	ОК	0.01	0.044	ОК	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins			Ammonia-To		milligrams per litre	0.023	<0.035	0.01	0.0175 < 0.035	OK	0.035
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins			Ammonia-To		milligrams	0.014	OK	0.01	0.014	OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007				Ammonia-To Ammonia-To		milligrams milligrams	0.052 0.03	OK OK	0.01	0.052	OK OK	0.01 0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				Ammonia-To		milligrams	0.015	ОК	0.01	0.015	OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins			Ammonia-To BOD - 5 days		milligrams milligrams	0.012 1.7	OK	0.01	0.012 1.7	OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/07/2021	TRaC Surf	Ammonia-To	mg/l	milligrams	0.046	ОК	0.01	0.046	OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007				Ammonia-To Ammonia-To		milligrams milligrams	0.025 0.023	OK OK	0.01	0.025 0.023	OK OK	0.01 0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins			Ammonia-To		milligrams per litre	0.023	<0.035	0.01	0.023	UK	0.035
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins			Ammonia-To		milligrams	0.052		0	0.052		
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007				BOD - 5 days BOD - 5 days		milligrams milligrams	1.1	OK OK	1	1.1 1.7	OK OK	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				BOD - 5 days		milligrams	1.4	ОК	1	1.4	ОК	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins			BOD - 5 days		milligrams per litre	<1	ОК	1	0.5 <1	OK	1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007		,,		BOD - 5 days BOD - 5 days		milligrams milligrams per litre	1.4 <1	ОК	1	1.4 0.5 <1	ОК	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	03/03/2021	Grab	BOD - 5 days	mg/l	milligrams per litre		<1.0	1	0.5 <1.0		1
Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins	07/07/2021		BOD - 5 days BOD - 5 days		milligrams milligrams	2.2 1.6	ОК	1	2.2 1.6	ОК	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				BOD - 5 days		milligrams per litre	<1	OK	1	0.5 <1	OK	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				BOD - 5 days		milligrams	1.5	OK	1	1.5	OK	1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007				BOD - 5 days BOD - 5 days		milligrams milligrams per litre	1.4	OK OK	1	1.4 0.5 <1	OK OK	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/07/2021	TRaC Surf	Chlorophyll a	Âμg/I	Microgram	2.9	ОК	0.01	2.9	ОК	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				Chlorophyll a		Microgram	8.4	OK	0.01	8.4	OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins			Chlorophyll a Depth	Aμg/I m	Microgram Metres	1.1 3.1	OK OK	0.01	1.1 3.1	OK OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	17/05/2021	TRaC Surf	Depth	m	Metres	0.3	ОК		0.3	OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins				m	Metres	0.3	OK OK		0.3	OK OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins				m m	Metres Metres	11	OK OK		11	OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/07/2021	TRaC Surf	Chlorophyll a		Microgram	1.6	ОК	0.01	1.6	ОК	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				Chlorophyll a		Microgram	5.8	OK	0.01	5.8	OK OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins				m m	Metres Metres	0.3	OK OK		0.3	OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	20/10/2021	Grab	Dissolved Ox	% Saturation	Percentage	99.1		0	99.1		
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				Dissolved Ox			110	OK	1	110	OK	1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins			Depth Dissolved Ox	m % Saturation	Metres Percentage	4.4 85	OK OK	1	4.4 85	OK OK	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins			E. Coli	no./100mls	Number per one hundr		<10	0	5 <10		10
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins				m (ree i	Metres	6.1	OK		6.1	OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins					Number pi Number per one hundr	31 red millilitres	<10	0	31 5 <10		10
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	12/05/2021	Grab	Enterococci (146		0	146		
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins			Faecal colifor			63		0	63		
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins			Faecal colifor Dissolved Ox			20 103	ОК	0	20 103	ОК	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				Dissolved Ox			79	ОК	1	79	OK	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins			Enterococci (108		0	108		
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins			Enterococci (Faecal colifor			52 213		0	52 213		
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	17/05/2021	TRaC Bott	ortho-Phospi	mg/l	milligrams per litre	< 0.005	ОК	0.005	0.0025 < 0.005	OK	0.005
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				ortho-Phospi		milligrams per litre	<0.005	OK	0.005	0.0025 < 0.005	OK	0.005
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007				ortho-Phospl ortho-Phospl		milligrams milligrams	0.0085 0.0085	OK OK	0.005	0.0085	OK OK	0.005 0.005
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				ortho-Phospl		milligrams	0.022	ОК	0.005	0.022	OK	0.005
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				ortho-Phospi		milligrams per litre	<0.005	OK	0.005	0.0025 < 0.005	OK	0.005
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007				ortho-Phospl Dissolved Ox		milligrams Percentage	0.0055 112	OK OK	0.005	0.0055 112	OK OK	0.005
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				Dissolved Ox			113	OK	1	113	OK	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins						79	OK	1	79	OK	1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins			Dissolved Ox		milligrams Percentage	0.041 106.4	OK	0.005	0.041 106.4	OK	0.005
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins			Dissolved Ox	% Saturation	Percentage	111.9		0	111.9		
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins				no./100mls		146		0	146		
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins			Enterococci (Faecal colifor		Number pi Number pi	30 52		0	30 52		
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins					pH Units	8.2	ОК	2	8.2	OK	2
Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007	BN090 - Kins				pH units	pH Units	7.9 0.54	OK OK	2	7.9 0.54	OK OK	2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins			Pheophytin a	Aμg/I pH units	Microgram pH Units	8.1	OK	0.01	8.1	OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/07/2021	TRaC Surf	pH	pH units	pH Units	8.3	OK	2	8.3	OK	2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins				pH units pH units	pH Units pH Units	7.6 8.1	ОК	2	7.6 8.1	OK	2 2
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				Pheophytin a		Microgram	1.7	ОК	0.01	1.7	ОК	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				Pheophytin a		Microgram	0.32	ОК	0.01	0.32	OK	0.01
Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins			Pheophytin a	Aμg/I PSU	Microgram Practical sa	1.3 33.6	OK OK	0.01	1.3 33.6	OK OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins				PSU	Practical sa	28.7	OK	0.1	28.7	OK	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	17/05/2021	TRaC Surf	Salinity	PSU	Practical sa	23.2	OK	0.1	23.2	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins			Salinity ortho-Phospl	PSU mg/l	Practical sa milligrams	30.6 0.0086	OK OK	0.1	30.6 0.0086	OK OK	0.1 0.005
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	25/08/2021	TRaC Bott	ortho-Phospi	mg/l	milligrams	0.011	OK	0.005	0.011	ОК	0.005
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007		20/10/2021			pH units PSU	pH Units Practical sa	7.9 11.2	OK	0.1	7.9 11.2	ОК	2 0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007	BN090 - Kins BN090 - Kins	01/11/2021 01/07/2021			PSU	Practical sa	11.2 33	OK OK	0.1	11.2 33	OK	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins				PSU	Practical sa	29.7	OK	0.1	29.7	ОК	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins			Salinity Salinity(Lab)	PSU 0/oo	Practical sa 0/00	31.5 29.9	OK OK	0.1	31.5 29.9	OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	25/08/2021	TRaC Surf	Salinity(Lab)		0/00	30	ОК	0.1	30	OK	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins				pH units	pH Units	8.3	OK	2	8.3	OK	2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins				pH units pH units	pH Units pH Units	8.3 8.3	OK OK	2	8.3 8.3	OK OK	2
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/07/2021	TRaC Bott	pH	pH units	pH Units	8.2	ОК	2	8.2	OK	2
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins				pH units	pH Units	8.1	OK	2	8.1	OK	2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007				Salinity(Lab) Salinity(Lab)		0/00 0/00	24.6 23.1	OK OK	0.1	24.6 23.1	OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/07/2021	TRaC Bott	Salinity(Lab)	0/00	0/00	31.7	OK	0.1	31.7	OK	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/07/2021	TRaC Surf	Salinity(Lab)	0/00	0/00	29.6	OK	0.1	29.6	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007				Pheophytin a Silica (as SiO2		Microgram milligrams	3.2 0.47	OK OK	0.01	3.2 0.47	OK OK	0.01 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/07/2021	TRaC Bott	Silica (as SiO2		milligrams per litre	<0.1	ОК	0.1	0.05 < 0.1	OK	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins					Practical sa milligrams	26.2	OK	0.1	26.2	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins			Silica (as SiO2 Salinity	mg/l PSU	milligrams Practical sa	0.4 34.7	OK OK	0.1	0.4 34.7	OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/07/2021	TRaC Surf	Salinity	PSU	Practical sa	30.1	ОК	0.1	30.1	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins			Silica (as SiO2	mg/I PSU	milligrams per litre Practical sa	<0.1 33.6	OK OK	0.1	0.05 < 0.1 33.6	OK OK	0.1 0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007				Salinity Silica (as SiO2		milligrams	0.11	OK OK	0.1	0.11	OK	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/11/2021	TRaC Bott	Silica (as SiO2	mg/l	milligrams	0.64	ОК	0.1	0.64	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007				StationDepth StationDepth		Metres Metres	3.2 8.5	OK OK	0.1	3.2 8.5	OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				StationDepth StationDepth		Metres	7.7	OK	0.1	8.5 7.7	OK	0.1
Lower Bandon Estuary		TW05003167BN2007	BN090 - Kins	01/11/2021	TRaC Surf	StationDepth	m	Metres	11.8	OK	0.1	11.8	OK	0.1
	IE_SW_080_0100					Ctation Donth	m	Metres	11.8	OK	0.1	11.8	OK	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins								2.5			2.0
			BN090 - Kins	20/10/2021	Grab	Suspended S StationDepth	mg/l	milligrams Metres	16 4.5	ОК	2.5 0.1	16 4.5	ОК	2.5 0.1
Lower Bandon Estuary Lower Bandon Estuary Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100 IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007 TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins BN090 - Kins	20/10/2021 17/05/2021 17/05/2021	Grab TRaC Surf TRaC Surf	Suspended Si StationDepth StationDepth	mg/l m m	milligrams Metres Metres	16 4.5 3.2	OK OK	0.1	16 4.5 3.2	ОК	0.1 0.1
Lower Bandon Estuary Lower Bandon Estuary Lower Bandon Estuary Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100 IE_SW_080_0100 IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007 TW05003167BN2007 TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins BN090 - Kins BN090 - Kins	20/10/2021 17/05/2021 17/05/2021 01/07/2021	Grab TRaC Surf TRaC Surf TRaC Bott	Suspended Si StationDepth StationDepth StationDepth	mg/l m m m	milligrams Metres Metres Metres	16 4.5 3.2 8.5	OK OK OK	0.1 0.1 0.1	16 4.5 3.2 8.5	OK OK	0.1 0.1 0.1
Lower Bandon Estuary Lower Bandon Estuary Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100 IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007 TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins BN090 - Kins BN090 - Kins	20/10/2021 17/05/2021 17/05/2021 01/07/2021 17/05/2021	Grab TRaC Surf TRaC Surf TRaC Bott TRaC Bott	Suspended Si StationDepth StationDepth StationDepth Suspended Si	mg/l m m m m	milligrams Metres Metres	16 4.5 3.2	OK OK	0.1	16 4.5 3.2	ОК	0.1 0.1

Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	RN090 - Kins	01/07/2021	TRaC Botti Suspended Si	mg/l	milligrams per litre	<6	0	ĸ	4 3 <6	ОК	6
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	25/08/2021	TRaC Surfa Suspended Si	mg/l	milligrams	5	0	K	4 5	ОК	4
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa Suspended Si TRaC Botti Salinity(Lab)		milligrams 0/oo	7 33.8	0		4 7 1 33.8	OK OK	4 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti StationDepth		Metres	7.7	0			OK	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	,,			milligrams	27		2			2.5
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins	12/05/2021 07/07/2021			milligrams milligrams	30 24		2			2.5 2.5
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti Salinity(Lab)		0/00	31.3	0			ОК	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Surfa Salinity(Lab)		0/00	11.2	0			ОК	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins		TRaC Botti Salinity(Lab) Grab Temperature		0/oo Degrees ce	31.4 12.8	0		1 31.4 0 12.8	ОК	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Surfa Temperature		Degrees of	16.9	0		16.9	ОК	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti Temperature		Degrees ce	12 18.9	0		12 0 18.9	OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins		Grab Temperature TRaC Botti Temperature		Degrees ce Degrees ce	12.6	0		0 18.9 12.6	ОК	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/07/2021	TRaC Botti Temperature	°C	Degrees ce	16.4	0	K	16.4	OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Botti Temperature TRaC Botti Silica (as SiO2		Degrees ce milligrams	16.5 0.19	0		16.5 1 0.19	OK OK	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins				Degrees ce	14.8	U		0.19	UK	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/12/2021	TRaC Botti Silica (as SiO2		milligrams	0.64	0		1 0.64	ОК	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa TOC (as NPOI TRaC Surfa TOC (as NPOI		milligrams milligrams	3.4 6	0		2 3.4	OK OK	2 2
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins				milligrams	1.4	O		0 1.4	OK.	-
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	03/03/2021			milligrams	1			0 1		
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Botti TOC (as NPOI TRaC Botti StationDepth		milligrams Metres	2.3 4.5	0		2 2.3 1 4.5	OK OK	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti StationDepth		Metres	6.3	0			ОК	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti Suspended Si		milligrams per litre	<5	0		4 2.5 <5	OK	5
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Botti Total Oxidise TRaC Surfi Total Oxidise		milligrams milligrams	0.014	0			OK OK	0.01 0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	25/08/2021	TRaC Surfa Total Oxidise	mg/l	milligrams	0.056	0	K 0.0	1 0.056	ОК	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Surfa Total Oxidise		milligrams	0.21	0			OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa Total Oxidise TRaC Surfa Temperature		milligrams Degrees ce	0.38 10.8	0		1 0.38 10.8	OK OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/07/2021	TRaC Surfa Transparency	m	Metres	2.5	0	K	2.5	OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Botti Transparency TRaC Botti TOC (as NPOI		Metres milligrams	0.8	0		0.8 2 2	OK OK	2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti TOC (as NPOI		milligrams	2.8	0		2 2.8	OK	2
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/12/2021	TRaC Botti TOC (as NPOI	mg/l	milligrams	2.6	0	K	2 2.6	ОК	2
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins BN090 - Kins				milligrams	1.13			0 1.13	OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa Transparency TRaC Botti Transparency		Metres Metres	1.5 2.5	0		1.5 2.5	OK OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/07/2021	TRaC Botti Transparency	m	Metres	2	0	K	2	OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Surfa Transparency		Metres	0.8	0		0.8	OK	-
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Botti True Colour TRaC Botti Total Oxidise		milligrams	0.34	0		5 2.5 <5 1 0.34	OK OK	5 0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/11/2021	TRaC Surfa Total Oxidise	mg/l	milligrams	1.6	0	K 0.0	1 1.6	ОК	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti Total Oxidise		milligrams	0.32	0			OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins				milligrams milligrams	0.22			0 0.22 0 0.06		
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	17/05/2021	TRaC Botti Transparency	m	Metres	2	0	K	2	ОК	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa Transparency TRaC Botti Transparency		Metres Metres	2 1.5	0		2 1.5	OK OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti Transparency		Metres	0.8	0		0.8	OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Surfa True Colour			6	0		5 6	OK	5
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa True Colour TRaC Botti Ammonia-To		Milligramn milligrams	28 0.014	0		5 28 1 0.014	OK OK	5 0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti Ammonia-To		milligrams	0.044	0			OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti Ammonia-To		milligrams	0.064	0			ОК	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa Ammonia-To TRaC Surfa BOD - 5 days		milligrams milligrams	0.058	0		1 0.058 1 1	OK OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Surfa Chlorophyll a		Microgram	15	0			ОК	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007					Metres	8.5 0.3	0		8.5 0.3	OK OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007				m m	Metres Metres	7.4	0		7.4	OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007				m	Metres	11	0		11	ОК	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Botti Dissolved Oxi TRaC Surfa Dissolved Oxi			106 113	0		1 106 1 113	OK OK	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti Dissolved Oxi			98	0		1 98	OK	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti Dissolved Ox			107	0		1 107	ОК	1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa Dissolved Ox TRaC Botti Dissolved Ox			118 102	0		1 118 1 102	OK OK	1
Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007	BN090 - Kins					111.8	U		0 111.8	OK.	1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Surfa ortho-Phospi		milligrams per litre	<0.					0.005
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007			TRaC Surfa ortho-Phospi TRaC Botta ortho-Phospi		milligrams milligrams	0.0056	0			OK OK	0.005 0.005
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007					milligrams	0.03			0 0.03	O.K	0.003
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007		,,		p	pH Units	8.3	0		2 8.3	OK	2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007				pH units pH units	pH Units pH Units	8.1 7.9	0		2 8.1 2 7.9	OK OK	2
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	12/05/2021	Grab pH		pH Units	8.3			2 8.3		2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins		Grab pH TRaC Surfa Pheophytin a		pH Units Microgram	8.2 1.2	0		2 8.2 1 1.2	ОК	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007					Practical sa	33.6	0			OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	17/05/2021	TRaC Botti Salinity(Lab)	0/00	0/00	29.6	0	K 0	1 29.6	OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa Salinity(Lab) TRaC Botti Salinity(Lab)		0/oo 0/oo	25.9 31.4	0			OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Surfa Silica (as SiO2		milligrams	0.36	0			ОК	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Bottı Silica (as SiO2		milligrams	0.11	0			OK	0.1
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa Silica (as SiO2 TRaC Surfa Silica (as SiO2		milligrams per litre milligrams	<0. 0.14	L 0			OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Surfa Silica (as SiO2		milligrams	2.5	0			ОК	0.1
Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa StationDepth TRaC Botti StationDepth		Metres Metres	6.3 11.8	0			OK OK	0.1 0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti Temperature		Degrees ce	11.6	0		11.6	OK	0.1
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Surfa Temperature		Degrees c∈	13	0		13	OK	
Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa Temperature TRaC Botti Temperature		Degrees ce Degrees ce	13.3 15.4	0		13.3 15.4	OK OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Surfa Temperature		Degrees ce	17.2	0		17.2	ОК	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Surfa Temperature		Degrees or	17.7	0		17.7	OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins		TRaC Botti Temperature Grab Temperature		Degrees ce Degrees ce	12 8.7	0		12 0 8.7	OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	17/05/2021	TRaC Surfa TOC (as NPOI	mg/l	milligrams	2.4	0	K	2 2.4	ОК	2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti TOC (as NPOI		milligrams per litre	<2 <2	0		2 1 <2 2 1 <2	OK OK	2 2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Botti TOC (as NPOI TRaC Surfa TOC (as NPOI		milligrams per litre milligrams	2.4	0		2 1 < 2	OK	2
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/11/2021	TRaC Botti TOC (as NPOI	mg/l	milligrams	2.6	0		2 2.6	ОК	2
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007	BN090 - Kins BN090 - Kins				milligrams milligrams per litre	0.8	-		0 0.8 0 0.25 <0.50	,	0.5
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti Total Oxidise	-	milligrams per litre milligrams	0.15	0			ОК	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti Total Oxidise	mg/l	milligrams	0.1	0			OK	0.01
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa Total Oxidise TRaC Botti Total Oxidise		milligrams milligrams	0.16 0.074	0			OK OK	0.01 0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007			TRaC Botti Total Oxidise		milligrams	0.32	0	K 0.0		OK	0.01
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	01/07/2021	TRaC Surfa Transparency	m	Metres	2	0		2	OK	
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007 TW05003167BN2007			TRaC Surfa Transparency TRaC Botti Transparency		Metres Metres	1.5 1.5	0		1.5 1.5	OK OK	
Lower Bandon Estuary	IE_SW_080_0100	TW05003167BN2007	BN090 - Kins	17/05/2021	TRaC Botti True Colour	mg/litre Pt C	Milligrammes per litre Co	olour <5	0	K	5 2.5 <5	OK	5
Lower Bandon Estuary Lower Bandon Estuary	IE_SW_080_0100 IE_SW_080_0100	TW05003167BN2007			TRaC Botti True Colour TRaC Surfi True Colour				0		5 2.5 <5 5 2.5 <5	OK OK	5 5
Lower Burdon Estadily	544_000_0100	. ************************************	SINGSU - KIIIS	, JUJ 2021	Junit True Colour	_{Br} auertt	grunnines per nue CC	\3	U		_ 2.3 \3	J.	3