



APPENDIX 8-2

**HYDROLOGY SURFACE WATER
SAMPLING LABORATORY
RESULTS**



ALS Life Sciences Ltd
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Report No: HYDR-246020421

Document No: EF0011

CERTIFICATE OF ANALYSIS

Client **Hydro Environmental Services**
22 Lower Main Street
Dungarvan
Co. Waterford

Date Received 02/04/2021

Date Reported 07/04/2021

Order Number N/A

For the Attention of: Hydro Environmental Services

Sample Reception 18 sample(s) received in good condition.

Comments N/A

Report Authorised by:

Rosemary Thomas
Environmental Chemistry Manager

Conditions:

1. Results in this report relate only to the items tested
2. Reports may not be reproduced except in full without the approval of ALS Life Sciences Ltd
3. All queries regarding this report should be addressed to the Technical Manager at the above address
4. A * next to a method reference signifies that ALS Life Sciences Ltd is NOT INAB accredited for this method
5. Results reported as CFU/cm² are calculated based on information supplied by customer regarding area swabbed
6. SUBCON* indicates analysis subcontracted to approved subcontractors who do not hold accreditation for this test
7. SUBCON^ indicates analysis subcontracted to approved subcontractors who hold accreditation for this test
8. Where sampling is undertaken by ALS personnel, sampling activities are outside the scope of INAB accreditation
9. Dil next to a method reference indicates that a dilution of the water sample was undertaken during testing



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Date Received 02/04/2021

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Order Number N/A

Sample Type Surface Water
Client ID Ballivor SW 1 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420452

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	40	mg / l	P202
Phosphorus	0.11	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	12.9	mg/l Cl	P281
Nitrate	7.0	mg/l NO3	P281
Nitrite	0.08	mg/l NO2	P281
Ammonia	0.20	mg/l NH3-N	P281
Nitrogen (Total)	2.3	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW 2 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420453

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	9	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	0.03	mg/l P	P281
Chloride	14.0	mg/l Cl	P281
Nitrate	17.8	mg/l NO3	P281
Nitrite	0.05	mg/l NO2	P281
Ammonia	0.20	mg/l NH3-N	P281
Nitrogen (Total)	5.0	mg/L N	P285

Report Authorised by:

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Rosemary Thomas
Environmental Chemistry Manager



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Order Number N/A

Sample Type Surface Water
Client ID Ballivor SW 3 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420454

Test	Result	Unit	Method
Suspended Solids	8	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Chloride	15.2	mg/l Cl	P281
Nitrate	23.8	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.12	mg/l NH3-N	P281
Nitrogen (Total)	6.3	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW 4 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420455

Test	Result	Unit	Method
Suspended Solids	80	mg / l	P202
Phosphorus	0.42	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	0.33	mg/l P	P281
Chloride	18.4	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.03	mg/l NH3-N	P281
Nitrogen (Total)	1.8	mg/L N	P285

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Sample Type Surface Water
Client ID Ballivor SW 5 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420456

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Chloride	15.6	mg/l Cl	P281
Nitrate	24.6	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.12	mg/l NH3-N	P281
Nitrogen (Total)	7.0	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW 6 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420457

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	6	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Chloride	17.6	mg/l Cl	P281
Nitrate	32.9	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.11	mg/l NH3-N	P281
Nitrogen (Total)	8.2	mg/L N	P285

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Sample Type Surface Water
Client ID Ballivor SW 7 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420458

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	8	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	0.03	mg/l P	P281
Chloride	13.6	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	0.05	mg/l NO2	P281
Ammonia	0.23	mg/l NH3-N	P281
Nitrogen (Total)	1.6	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW 8 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420459

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	32	mg / l	P202
Phosphorus	0.10	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	0.03	mg/l P	P281
Chloride	10.5	mg/l Cl	P281
Nitrate	6.3	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.51	mg/l NH3-N	P281
Nitrogen (Total)	2.4	mg/L N	P285

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Order Number N/A

Sample Type Surface Water
Client ID Ballivor SW 9 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420460

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Chloride	12.3	mg/l Cl	P281
Nitrate	5.5	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.08	mg/l NH3-N	P281
Nitrogen (Total)	1.4	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW 10 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420461

Test	Result	Unit	Method
Suspended Solids	14	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	26.4	mg/l Cl	P281
Nitrate	6.1	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.39	mg/l NH3-N	P281
Nitrogen (Total)	4.0	mg/L N	P285

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Order Number N/A

Sample Type Surface Water
Client ID Ballivor SW 11 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420462

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	4	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	13.6	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.12	mg/l NH3-N	P281
Nitrogen (Total)	1.4	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW 12 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420463

Test	Result	Unit	Method
Suspended Solids	11	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	23.2	mg/l Cl	P281
Nitrate	11.9	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.05	mg/l NH3-N	P281
Nitrogen (Total)	3.6	mg/L N	P285

Report Authorised by:

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Environmental Chemistry Manager



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Order Number N/A

Sample Type Surface Water
Client ID Ballivor SW 13 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420464

Test	Result	Unit	Method
Suspended Solids	7	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	0.04	mg/l P	P281
Chloride	17.2	mg/l Cl	P281
Nitrate	7.8	mg/l NO3	P281
Nitrite	0.05	mg/l NO2	P281
Ammonia	0.12	mg/l NH3-N	P281
Nitrogen (Total)	1.9	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW 14 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420465

Test	Result	Unit	Method
Suspended Solids	6	mg / l	P202
Phosphorus	0.33	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	0.30	mg/l P	P281
Chloride	13.0	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.56	mg/l NH3-N	P281
Nitrogen (Total)	2.5	mg/L N	P285

Report Authorised by:

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Date Received 02/04/2021

Date Reported 07/04/2021

Order Number N/A

Sample Type Surface Water
Client ID Ballivor SW 15 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420466

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	6	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	15.6	mg/l Cl	P281
Nitrate	11.4	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.06	mg/l NH3-N	P281
Nitrogen (Total)	2.8	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW 16 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420467

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	6	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	0.04	mg/l P	P281
Chloride	14.3	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	0.05	mg/l NO2	P281
Ammonia	0.37	mg/l NH3-N	P281
Nitrogen (Total)	1.8	mg/L N	P285

Report Authorised by:

Rosemary Thomas

Rosemary Thomas
Environmental Chemistry Manager



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Date Received 02/04/2021
Date Reported 07/04/2021
Order Number N/A

Sample Type Surface Water
Client ID Ballivor SW 17 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420468

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	8	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	15.5	mg/l Cl	P281
Nitrate	9.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.05	mg/l NH3-N	P281
Nitrogen (Total)	2.2	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW 18 Date sampled: 01.04.2021
Date Tested 02/04/2021
ALS ID 4420469

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	9	mg / l	P202
Phosphorus	0.13	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	0.03	mg/l P	P281
Chloride	10.4	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.03	mg/l NH3-N	P281
Nitrogen (Total)	1.4	mg/L N	P285

Report Authorised by:

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Report No: HYDR-759281021

Document No: EF0011

CERTIFICATE OF ANALYSIS

Client **Hydro Environmental Services**
22 Lower Main Street
Dungarvan
Co. Waterford

Date Received 28/10/2021

Date Reported 18/11/2021

Order Number P1510

For the Attention of: Hydro Environmental Services

Sample Reception 18 sample(s) received in good condition.

Comments N/A

Report Authorised by:

Rosemary Thomas
Environmental Chemistry Manager

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CERTIFICATE OF ANALYSIS

Date Received 28/10/2021

Date Reported 18/11/2021

Order Number P1510

Sample Type Surface Water
Client ID Ballivor SW1
Date Tested 29/10/2021
ALS ID 4733798

Test	Result	Unit	Method
Suspended Solids	20	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	4	mg/l O2	P280
Orthophosphate	0.06	mg/l P	P281
Chloride	14.1	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	0.15	mg/l NO2	P281
Ammonia	0.60	mg/l NH3-N	P281
Nitrogen (Total)	1.8	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW2
Date Tested 29/10/2021
ALS ID 4733799

Test	Result	Unit	Method
Suspended Solids	19	mg / l	P202
Phosphorus	0.16	mg/l P	P207
BOD 5 day Total with ATU	4	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Chloride	11.0	mg/l Cl	P281
Nitrate	11.8	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.13	mg/l NH3-N	P281
Nitrogen (Total)	4.3	mg/L N	P285

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Date Reported 18/11/2021

Order Number P1510

Sample Type Surface Water
Client ID Ballivor SW3
Date Tested 29/10/2021
ALS ID 4733800

Test	Result	Unit	Method
Suspended Solids	10	mg / l	P202
Phosphorus	0.18	mg/l P	P207
BOD 5 day Total with ATU	4	mg/l O2	P280
Orthophosphate	0.04	mg/l P	P281
Chloride	12.5	mg/l Cl	P281
Nitrate	14.8	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.09	mg/l NH3-N	P281
Nitrogen (Total)	5.4	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW4
Date Tested 29/10/2021
ALS ID 4733801

Test	Result	Unit	Method
Suspended Solids	6	mg / l	P202
Phosphorus	0.26	mg/l P	P207
BOD 5 day Total with ATU	3	mg/l O2	P280
Orthophosphate	0.11	mg/l P	P281
Chloride	10.0	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.05	mg/l NH3-N	P281
Nitrogen (Total)	1.7	mg/L N	P285

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Environmental Chemistry Manager



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Date Reported 18/11/2021

Order Number P1510

Sample Type Surface Water
Client ID Ballivor SW5
Date Tested 29/10/2021
ALS ID 4733802

Test	Result	Unit	Method
Suspended Solids	5	mg / l	P202
Phosphorus	0.10	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	0.03	mg/l P	P281
Chloride	11.0	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.20	mg/l NH3-N	P281
Nitrogen (Total)	1.7	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW6
Date Tested 29/10/2021
ALS ID 4733803

Test	Result	Unit	Method
Suspended Solids	6	mg / l	P202
Phosphorus	0.26	mg/l P	P207
BOD 5 day Total with ATU	4	mg/l O2	P280
Orthophosphate	0.03	mg/l P	P281
Chloride	17.3	mg/l Cl	P281
Nitrate	19.7	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.12	mg/l NH3-N	P281
Nitrogen (Total)	8.7	mg/L N	P285

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Environmental Chemistry Manager



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Date Received 28/10/2021

Date Reported 18/11/2021

Order Number P1510

Sample Type Surface Water
Client ID Ballivor SW7
Date Tested 29/10/2021
ALS ID 4733804

Test	Result	Unit	Method
Suspended Solids	14	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	3	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	4.6	mg/l Cl	P281
Nitrate	5.2	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.24	mg/l NH3-N	P281
Nitrogen (Total)	2.3	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW8
Date Tested 29/10/2021
ALS ID 4733805

Test	Result	Unit	Method
Suspended Solids	29	mg / l	P202
Phosphorus	0.12	mg/l P	P207
BOD 5 day Total with ATU	4	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	8.1	mg/l Cl	P281
Nitrate	8.5	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.14	mg/l NH3-N	P281
Nitrogen (Total)	4.4	mg/L N	P285

Report Authorised by:

Rosemary Thomas

Rosemary Thomas
Environmental Chemistry Manager



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Report No: HYDR-759281021

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Received 28/10/2021

Date Reported 18/11/2021

Order Number P1510

Sample Type Surface Water
Client ID Ballivor SW9
Date Tested 29/10/2021
ALS ID 4733806

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	0.10	mg/l P	P207
BOD 5 day Total with ATU	3	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Chloride	8.0	mg/l Cl	P281
Nitrate	10.2	mg/l NO3	P281
Nitrite	0.06	mg/l NO2	P281
Ammonia	0.08	mg/l NH3-N	P281
Nitrogen (Total)	3.4	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW10
Date Tested 29/10/2021
ALS ID 4733807

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	0.14	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	0.05	mg/l P	P281
Chloride	28.5	mg/l Cl	P281
Nitrate	14.4	mg/l NO3	P281
Nitrite	0.05	mg/l NO2	P281
Ammonia	0.10	mg/l NH3-N	P281
Nitrogen (Total)	4.5	mg/L N	P285

Report Authorised by:

Rosemary Thomas

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Environmental Chemistry Manager



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CERTIFICATE OF ANALYSIS

Date Received 28/10/2021

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Order Number P1510

Sample Type Surface Water
Client ID Ballivor SW11
Date Tested 29/10/2021
ALS ID 4733808

Test	Result	Unit	Method
Suspended Solids	8	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	4	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	6.5	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.16	mg/l NH3-N	P281
Nitrogen (Total)	1.0	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW12
Date Tested 29/10/2021
ALS ID 4733809

Test	Result	Unit	Method
Suspended Solids	29	mg / l	P202
Phosphorus	0.12	mg/l P	P207
BOD 5 day Total with ATU	3	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	16.9	mg/l Cl	P281
Nitrate	9.2	mg/l NO3	P281
Nitrite	0.11	mg/l NO2	P281
Ammonia	0.11	mg/l NH3-N	P281
Nitrogen (Total)	3.4	mg/L N	P285

Report Authorised by:

Rosemary Thomas

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CERTIFICATE OF ANALYSIS

Date Received 28/10/2021

Date Reported 18/11/2021

Order Number P1510

Sample Type Surface Water
Client ID Ballivor SW13
Date Tested 29/10/2021
ALS ID 4733810

Test	Result	Unit	Method
Suspended Solids	13	mg / l	P202
Phosphorus	0.13	mg/l P	P207
BOD 5 day Total with ATU	3	mg/l O2	P280
Orthophosphate	0.04	mg/l P	P281
Chloride	13.7	mg/l Cl	P281
Nitrate	7.0	mg/l NO3	P281
Nitrite	0.08	mg/l NO2	P281
Ammonia	0.18	mg/l NH3-N	P281
Nitrogen (Total)	3.0	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW14
Date Tested 29/10/2021
ALS ID 4733811

Test	Result	Unit	Method
Suspended Solids	9	mg / l	P202
Phosphorus	0.16	mg/l P	P207
BOD 5 day Total with ATU	4	mg/l O2	P280
Orthophosphate	0.06	mg/l P	P281
Chloride	9.7	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.14	mg/l NH3-N	P281
Nitrogen (Total)	2.2	mg/L N	P285

Report Authorised by:

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CERTIFICATE OF ANALYSIS

Date Received 28/10/2021

Date Reported 18/11/2021

Order Number P1510

Sample Type Surface Water
Client ID Ballivor SW15
Date Tested 29/10/2021
ALS ID 4733812

Test	Result	Unit	Method
Suspended Solids	31	mg / l	P202
Phosphorus	0.16	mg/l P	P207
BOD 5 day Total with ATU	3	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	18.3	mg/l Cl	P281
Nitrate	20.3	mg/l NO3	P281
Nitrite	0.15	mg/l NO2	P281
Ammonia	0.11	mg/l NH3-N	P281
Nitrogen (Total)	6.0	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW16
Date Tested 29/10/2021
ALS ID 4733813

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	3	mg/l O2	P280
Orthophosphate	0.03	mg/l P	P281
Chloride	10.7	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	0.05	mg/l NO2	P281
Ammonia	0.20	mg/l NH3-N	P281
Nitrogen (Total)	1.7	mg/L N	P285

Report Authorised by:

Rosemary Thomas

Rosemary Thomas
Environmental Chemistry Manager



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Date Received 28/10/2021

Date Reported 18/11/2021

Order Number P1510

Sample Type Surface Water
Client ID Ballivor SW17
Date Tested 29/10/2021
ALS ID 4733814

Test	Result	Unit	Method
Suspended Solids	12	mg / l	P202
Phosphorus	0.18	mg/l P	P207
BOD 5 day Total with ATU	4	mg/l O2	P280
Orthophosphate	0.03	mg/l P	P281
Chloride	12.0	mg/l Cl	P281
Nitrate	15.3	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.09	mg/l NH3-N	P281
Nitrogen (Total)	5.8	mg/L N	P285

Sample Type Surface Water
Client ID Ballivor SW18
Date Tested 29/10/2021
ALS ID 4733815

Test	Result	Unit	Method
Suspended Solids	51	mg / l	P202
Phosphorus	0.10	mg/l P	P207
BOD 5 day Total with ATU	3	mg/l O2	P280
Orthophosphate	0.04	mg/l P	P281
Chloride	8.3	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.12	mg/l NH3-N	P281
Nitrogen (Total)	1.8	mg/L N	P285

Report Authorised by:

Rosemary Thomas



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Report No: HYDR-712190122

Document No: EF0011

CERTIFICATE OF ANALYSIS

Client **Hydro Environmental Services**
22 Lower Main Street
Dungarvan
Co. Waterford

Date Received 19/01/2022

Date Reported 27/01/2022

Order Number N/A

For the Attention of: Hydro Environmental Services

Sample Reception 16 sample(s) received in good condition.

Comments N/A

Report Authorised by:

Rosemary Thomas
Environmental Chemistry Manager

Conditions:

1. Results in this report relate only to the items tested
2. Reports may not be reproduced except in full without the approval of ALS Life Sciences Ltd
3. All queries regarding this report should be addressed to the Technical Manager at the above address
4. A * next to a method reference signifies that ALS Life Sciences Ltd is NOT INAB accredited for this method
5. Results reported as CFU/cm² are calculated based on information supplied by customer regarding area swabbed
6. SUBCON* indicates analysis subcontracted to approved subcontractors who do not hold accreditation for this test
7. SUBCON^ indicates analysis subcontracted to approved subcontractors who hold accreditation for this test
8. Where sampling is undertaken by ALS personnel, sampling activities are outside the scope of INAB accreditation
9. Dil next to a method reference indicates that a dilution of the water sample was undertaken during testing



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Report No: HYDR-712190122

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Received 19/01/2022
Date Reported 27/01/2022
Order Number N/A

Sample Type Surface Water
Client ID SW 1
Date Tested 20/01/2022
ALS ID 4849635

Test	Result	Unit	Method
Suspended Solids	13	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	0.09	mg/l P	P281
Chloride	22.0	mg/l Cl	P281
Nitrate	13.2	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.25	mg/l NH3-N	P281
Nitrogen (Total)	3.0	mg/L N	P285

Sample Type Surface Water
Client ID SW 2
Date Tested 20/01/2022
ALS ID 4849636

Test	Result	Unit	Method
Suspended Solids	6	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	0.09	mg/l P	P281
Chloride	15.2	mg/l Cl	P281
Nitrate	21.5	mg/l NO3	P281
Nitrite	0.11	mg/l NO2	P281
Ammonia	0.25	mg/l NH3-N	P281
Nitrogen (Total)	6.1	mg/L N	P285

Report Authorised by:

Rosemary Thomas



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Date Received 19/01/2022

Date Reported 27/01/2022

Order Number N/A

Sample Type Surface Water
Client ID SW 3
Date Tested 20/01/2022
ALS ID 4849637

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Chloride	15.8	mg/l Cl	P281
Nitrate	27.9	mg/l NO3	P281
Nitrite	0.09	mg/l NO2	P281
Ammonia	0.12	mg/l NH3-N	P281
Nitrogen (Total)	7.8	mg/L N	P285

Sample Type Surface Water
Client ID SW 5
Date Tested 20/01/2022
ALS ID 4849639

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	15.9	mg/l Cl	P281
Nitrate	28.4	mg/l NO3	P281
Nitrite	0.09	mg/l NO2	P281
Ammonia	0.12	mg/l NH3-N	P281
Nitrogen (Total)	9.4	mg/L N	P285

Report Authorised by:

Rosemary Thomas

Rosemary Thomas
Environmental Chemistry Manager



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Date Received 19/01/2022

Date Reported 27/01/2022

Order Number N/A

Sample Type Surface Water
Client ID SW 6
Date Tested 20/01/2022
ALS ID 4849640

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	17.6	mg/l Cl	P281
Nitrate	35.4	mg/l NO3	P281
Nitrite	0.06	mg/l NO2	P281
Ammonia	0.13	mg/l NH3-N	P281
Nitrogen (Total)	8.0	mg/L N	P285

Sample Type Surface Water
Client ID SW 7
Date Tested 20/01/2022
ALS ID 4849641

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Chloride	12.9	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.46	mg/l NH3-N	P281
Nitrogen (Total)	2.1	mg/L N	P285

Report Authorised by:

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Date Received 19/01/2022

Date Reported 27/01/2022

Order Number N/A

Sample Type Surface Water
Client ID SW 8
Date Tested 20/01/2022
ALS ID 4849642

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Chloride	10.8	mg/l Cl	P281
Nitrate	7.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.74	mg/l NH3-N	P281
Nitrogen (Total)	3.6	mg/L N	P285

Sample Type Surface Water
Client ID SW 9
Date Tested 20/01/2022
ALS ID 4849643

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	13.1	mg/l Cl	P281
Nitrate	7.3	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.03	mg/l NH3-N	P281
Nitrogen (Total)	1.8	mg/L N	P285

Report Authorised by:

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CERTIFICATE OF ANALYSIS

Date Received 19/01/2022

Date Reported 27/01/2022

Order Number N/A

Sample Type Surface Water
Client ID SW 10
Date Tested 20/01/2022
ALS ID 4849644

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	22.8	mg/l Cl	P281
Nitrate	21.8	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.04	mg/l NH3-N	P281
Nitrogen (Total)	7.0	mg/L N	P285

Sample Type Surface Water
Client ID SW 11
Date Tested 20/01/2022
ALS ID 4849645

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	0.11	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	12.6	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.22	mg/l NH3-N	P281
Nitrogen (Total)	1.9	mg/L N	P285

Report Authorised by:

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Date Received 19/01/2022

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Order Number N/A

Sample Type Surface Water
Client ID SW 12
Date Tested 20/01/2022
ALS ID 4849646

Test	Result	Unit	Method
Suspended Solids	28	mg / l	P202
Phosphorus	0.15	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	23.9	mg/l Cl	P281
Nitrate	14.9	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.07	mg/l NH3-N	P281
Nitrogen (Total)	5.2	mg/L N	P285

Sample Type Surface Water
Client ID SW 13
Date Tested 20/01/2022
ALS ID 4849647

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Chloride	20.9	mg/l Cl	P281
Nitrate	11.8	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.06	mg/l NH3-N	P281
Nitrogen (Total)	3.1	mg/L N	P285

Report Authorised by:

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Date Received 19/01/2022

Date Reported 27/01/2022

Order Number N/A

Sample Type Surface Water
Client ID SW 15
Date Tested 20/01/2022
ALS ID 4849649

Test	Result	Unit	Method
Suspended Solids	15	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	<1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	16.6	mg/l Cl	P281
Nitrate	13.2	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.07	mg/l NH3-N	P281
Nitrogen (Total)	3.8	mg/L N	P285

Sample Type Surface Water
Client ID SW 16
Date Tested 20/01/2022
ALS ID 4849650

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	<1	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Chloride	18.3	mg/l Cl	P281
Nitrate	9.8	mg/l NO3	P281
Nitrite	0.05	mg/l NO2	P281
Ammonia	0.25	mg/l NH3-N	P281
Nitrogen (Total)	7.1	mg/L N	P285

Report Authorised by:

Rosemary Thomas

Rosemary Thomas
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CERTIFICATE OF ANALYSIS

Date Received 19/01/2022

Date Reported 27/01/2022

Order Number N/A

Sample Type Surface Water
Client ID SW 17
Date Tested 20/01/2022
ALS ID 4849651

Test	Result	Unit	Method
Suspended Solids	5	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	<1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	15.1	mg/l Cl	P281
Nitrate	14.3	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.04	mg/l NH3-N	P281
Nitrogen (Total)	3.3	mg/L N	P285

Sample Type Surface Water
Client ID SW 18
Date Tested 20/01/2022
ALS ID 4849652

Test	Result	Unit	Method
Suspended Solids	6	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total with ATU	1	mg/l O2	P280
Orthophosphate	0.02	mg/l P	P281
Chloride	12.3	mg/l Cl	P281
Nitrate	6.2	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.09	mg/l NH3-N	P281
Nitrogen (Total)	2.4	mg/L N	P285

Report Authorised by:

Rosemary Thomas

Rosemary Thomas
Environmental Chemistry Manager

