



APPENDIX 9-3

WATER QUALITY LAB REPORTS



ALS Life Sciences Ltd
Trading as ALS
Carrigeen Business Park, Clonmel, Co. Tipperary
Tel: +353 (0) 52 617 8100
Fax: +353 (0) 52 617 8103
www.alsglobal.ie



Report No: HYDR-828070721

Document No: EF0011

CERTIFICATE OF ANALYSIS

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

Date Received 07/07/2021

Date Reported 16/07/2021

Order Number P1553

For the Attention of: Hydro Environmental Services

Sample Reception 3 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



ALS Life Sciences Ltd
 Trading as ALS
 Carrigeen Business Park, Clonmel, Co. Tipperary
 Tel: +353 (0) 52 617 8100
 Fax: +353 (0) 52 617 8103
 www.alsglobal.ie



Report No: HYDR-828070721

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Received 07/07/2021

Date Reported 16/07/2021

Order Number P1553

Sample Type Water
Client ID Ballynacora SW1
Date Tested 08/07/2021
ALS ID 4561986

<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	13.5	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	2.7	mg/L N	P285

Sample Type Water
Client ID Ballynacora SW2
Date Tested 08/07/2021
ALS ID 4561987

<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	17.3	mg/l Cl	P281
Nitrate	6.5	mg/l NO3	P281
Nitrite	0.07	mg/l NO2	P281
Ammonia	0.03	mg/l NH3-N	P281
Nitrogen (Total)	1.7	mg/L N	P285

Report Authorised by:

Rosemary Thomas



ALS Life Sciences Ltd
Trading as ALS
Carrigeen Business Park, Clonmel, Co. Tipperary
Tel: +353 (0) 52 617 8100
Fax: +353 (0) 52 617 8103
www.alsglobal.ie



Report No: HYDR-828070721

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Received 07/07/2021
Date Reported 16/07/2021
Order Number P1553

Sample Type Water
Client ID Ballynacora SW3
Date Tested 08/07/2021
ALS ID 4561988

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
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	<0.02	mg/l P	P281
Chloride	15.2	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	0.28	mg/l NO2	P281
Ammonia	0.14	mg/l NH3-N	P281
Nitrogen (Total)	1.2	mg/L N	P285

Report Authorised by:

Rosemary Thomas



ALS Life Sciences Ltd
Trading as ALS
Carrigeen Business Park, Clonmel, Co. Tipperary
Tel: +353 (0) 52 617 8100
Fax: +353 (0) 52 617 8103
www.alsglobal.ie



Report No: HYDR-366240322

Document No: EF0011

CERTIFICATE OF ANALYSIS

Client	Hydro Environmental Services 22 Lower Main Street Dungarvan Co. Waterford	Date Submitted	24/03/2022
		Date Reported	05/04/2022
		Order Number	1553
For the Attention of:	Hydro Environmental Services		
Sample Reception	10 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



ALS Life Sciences Ltd
Trading as ALS
Carrigeen Business Park, Clonmel, Co. Tipperary
Tel: +353 (0) 52 617 8100
Fax: +353 (0) 52 617 8103
www.alsglobal.ie



Report No: HYDR-366240322

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted 24/03/2022
Date Reported 05/04/2022
Order Number 1553

Sample Type Water
Client ID Ballynacorra SW1
Date Tested 24/03/2022
Scheduled date 24-Mar-2022
ALS ID 4947295

<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	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	14.2	mg/l Cl	P281
Nitrate	10.3	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	2.6	mg/L N	P285

Sample Type Water
Client ID Ballynacorra SW2
Date Tested 24/03/2022
Scheduled date 24-Mar-2022
ALS ID 4947296

<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	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	17.0	mg/l Cl	P281
Nitrate	12.4	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	0.04	mg/l NH3-N	P281
Nitrogen (Total)	3.4	mg/L N	P285

Report Authorised by:

Rosemary Thomas



ALS Life Sciences Ltd
Trading as ALS
Carrigeen Business Park, Clonmel, Co. Tipperary
Tel: +353 (0) 52 617 8100
Fax: +353 (0) 52 617 8103
www.alsglobal.ie



Report No: HYDR-366240322

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted 24/03/2022
Date Reported 05/04/2022
Order Number 1553

Sample Type Water
Client ID Ballynacorra SW3
Date Tested 24/03/2022
Scheduled date 24-Mar-2022
ALS ID 4947297

<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	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	16.0	mg/l Cl	P281
Nitrate	9.5	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	3.2	mg/L N	P285

Sample Type Water
Client ID Ballynacorra SW4
Date Tested 24/03/2022
Scheduled date 24-Mar-2022
ALS ID 4947298

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	11	mg / l	P202
Phosphorus	0.12	mg/l P	P207
BOD 5 day Total with ATU	2	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	12.5	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	2.1	mg/L N	P285

Report Authorised by:

Rosemary Thomas



ALS Life Sciences Ltd
Trading as ALS
Carrigeen Business Park, Clonmel, Co. Tipperary
Tel: +353 (0) 52 617 8100
Fax: +353 (0) 52 617 8103
www.alsglobal.ie



Report No: HYDR-366240322

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted 24/03/2022
Date Reported 05/04/2022
Order Number 1553

Sample Type Water
Client ID Ballynacorra SW5
Date Tested 24/03/2022
Scheduled date 24-Mar-2022
ALS ID 4947299

<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	1	mg/l O2	P280
Orthophosphate	<0.02	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	0.03	mg/l NH3-N	P281
Nitrogen (Total)	1.8	mg/L N	P285

Sample Type Water
Client ID Ballynacorra SW6
Date Tested 24/03/2022
Scheduled date 24-Mar-2022
ALS ID 4947300

<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	<1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	12.9	mg/l Cl	P281
Nitrate	11.5	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	1.5	mg/L N	P285

Report Authorised by:

Rosemary Thomas



ALS Life Sciences Ltd
Trading as ALS
Carrigeen Business Park, Clonmel, Co. Tipperary
Tel: +353 (0) 52 617 8100
Fax: +353 (0) 52 617 8103
www.alsglobal.ie



Report No: HYDR-366240322

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted 24/03/2022
Date Reported 05/04/2022
Order Number 1553

Sample Type Water
Client ID Ballynacorra SW7
Date Tested 24/03/2022
Scheduled date 24-Mar-2022
ALS ID 4947301

<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	<1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	16.8	mg/l Cl	P281
Nitrate	16.7	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	5.6	mg/L N	P285

Sample Type Water
Client ID Ballynacorra SW8
Date Tested 24/03/2022
Scheduled date 24-Mar-2022
ALS ID 4947302

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	25	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	15.3	mg/l Cl	P281
Nitrate	18.9	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	4.2	mg/L N	P285

Report Authorised by:

Rosemary Thomas



ALS Life Sciences Ltd
Trading as ALS
Carrigeen Business Park, Clonmel, Co. Tipperary
Tel: +353 (0) 52 617 8100
Fax: +353 (0) 52 617 8103
www.alsglobal.ie



Report No: HYDR-366240322

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted 24/03/2022
Date Reported 05/04/2022
Order Number 1553

Sample Type Water
Client ID Ballynacorra SW9
Date Tested 24/03/2022
Scheduled date 24-Mar-2022
ALS ID 4947303

<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	1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	18.6	mg/l Cl	P281
Nitrate	6.6	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	1.0	mg/L N	P285

Sample Type Water
Client ID Ballynacorra SW10
Date Tested 24/03/2022
Scheduled date 24-Mar-2022
ALS ID 4947304

<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	<1	mg/l O2	P280
Orthophosphate	<0.02	mg/l P	P281
Chloride	17.5	mg/l Cl	P281
Nitrate	25.3	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Ammonia	<0.02	mg/l NH3-N	P281
Nitrogen (Total)	4.6	mg/L N	P285

Report Authorised by:

Rosemary Thomas