



APPENDIX 9-2

***SURFACE WATER QUALITY
LABORATORY
REPORT***

CERTIFICATE OF ANALYSIS



ALS Life Sciences Ltd.,
Carrigeen Business Park Clonmel Co. Tipperary E91 PF63 Ireland
Telephone: +353 (0) 52 617 8100
www.alsglobal.ie

Page 1 of 2

Hydro Environmental Services
Hydro Environmental Services
22 Lower Main Street
Dungarvan, Co. Waterford
Ireland

Certificate Number: CLN053541-1 Final
Date Reported: 17/06/2025
Date Analysis Started: 06/06/2025

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN175571	Prod: Order No: P1646-0 Rcvd Dt: 05/06/2025 Start Testing: 06/06/2025 Description: P1646 - Cunlaghfadda SW1 Spt: Water Sample Type: Surface Waters Sample Date: 05/06/2025 11:29	P280	BOD 5 day Total	2	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	18.1	mg/L Cl	
		P285	Total Nitrogen	1.1	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	<0.02	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	0.92	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	
CLN175572	Prod: Order No: P1646-0 Rcvd Dt: 05/06/2025 Start Testing: 06/06/2025 Description: P1646 - Cunlaghfadda SW2 Spt: Water Sample Type: Surface Waters Sample Date: 05/06/2025 11:29	P280	BOD 5 day Total	3	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	16.6	mg/L Cl	
		P285	Total Nitrogen	1.7	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	2.22	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	0.07	mg/L P	
CLN175573	Prod: Order No: P1646-0 Rcvd Dt: 05/06/2025 Start Testing: 06/06/2025 Description: P1646 - Cunlaghfadda SW3 Spt: Water Sample Type: Surface Waters Sample Date: 05/06/2025 11:29	P280	BOD 5 day Total	3	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	16.6	mg/L Cl	
		P285	Total Nitrogen	3.6	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	2.23	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	



Certificate Number: CLN053541-1 Final

Page 2 of 2

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN175574	Prod: Order No: P1646-0 Rcvd Dt: 05/06/2025 Start Testing: 06/06/2025 Description: P1646 - Cunlaghfadda SW4 Spt: Water Sample Type: Surface Waters Sample Date: 05/06/2025 11:29	P280	BOD 5 day Total	2	mg/L O ₂	
		P202	Suspended Solids	<13	mg/L	
		P281	Chloride	19.3	mg/L Cl	
		P285	Total Nitrogen	1.7	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	0.02	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	0.22	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	

Certificate approved and electronically signed on 17/06/25 11:25

By Ciara Gildea, Senior Environmental Chemistry Analyst

For and on Behalf of ALS Life Sciences Ltd

Disclaimers:

The testing results in this certificate relate only to the samples described above.

Unless otherwise stated, all results are expressed on an as received basis.

Statement of conformity made against the result does not take into account the uncertainty of measurement associated to the method.

Opinions and interpretations expressed herein are outside the scope of INAB accreditation.

Where sampling is undertaken by ALS personnel, sampling activities are outside the scope of INAB accreditation

Reports may not be reproduced except in full without the approval of ALS Life Sciences Ltd.

No INAB logo on the certificate indicates all results reported on the certificate are not accredited.



CERTIFICATE OF ANALYSIS



ALS Life Sciences Ltd.,
Carrigeen Business Park Clonmel Co. Tipperary E91 PF63 Ireland
Telephone: +353 (0) 52 617 8100
www.alsglobal.ie

Page 1 of 2

Hydro Environmental Services
Hydro Environmental Services
22 Lower Main Street
Dungarvan, Co. Waterford
Ireland

Certificate Number: CLN094476-1 Final
Date Reported: 09/09/2025
Date Analysis Started: 20/08/2025

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN311342	Prod: Order No: P1646 Rcvd Dt: 19/08/2025 Start Testing: 20/08/2025 Description: P1646 Cunlaghfadda SW1 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<2	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	18.0	mg/L Cl	
		P285	Total Nitrogen	1.2	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	0.02	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	
CLN311343	Prod: Order No: P1646 Rcvd Dt: 19/08/2025 Start Testing: 20/08/2025 Description: P1646 Cunlaghfadda SW2 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<5	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	19.7	mg/L Cl	
		P285	Total Nitrogen	1.8	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	0.08	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	0.02	mg/L P	
CLN311344	Prod: Order No: P1646 Rcvd Dt: 19/08/2025 Start Testing: 20/08/2025 Description: P1646 Cunlaghfadda SW3 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<5	mg/L O ₂	
		P202	Suspended Solids	6	mg/L	
		P281	Chloride	16.3	mg/L Cl	
		P285	Total Nitrogen	3.1	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	2.13	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	



Certificate Number: CLN094476-1 Final

Page 2 of 2

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN311345	Prod: Order No: P1646 Rcvd Dt: 19/08/2025 Start Testing: 20/08/2025 Description: P1646 Cunlaghfadda SW4 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<5	mg/L O ₂	
		P202	Suspended Solids	8	mg/L	
		P281	Chloride	17.4	mg/L Cl	
		P285	Total Nitrogen	1.2	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Ammonia	0.03	mg/L NH ₃ -N	
		P281	Nitrate	<5.0	mg/L NO ₃	
		P281	Nitrite	<0.05	mg/L NO ₂	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	

Certificate approved and electronically signed on 09/09/25 11:42

By David Kinsella, Environmental Chemistry Manager

For and on Behalf of ALS Life Sciences Ltd

Disclaimers:

The testing results in this certificate relate only to the samples described above.

Unless otherwise stated, all results are expressed on an as received basis.

Statement of conformity made against the result does not take into account the uncertainty of measurement associated to the method.

Opinions and interpretations expressed herein are outside the scope of INAB accreditation.

Where sampling is undertaken by ALS personnel, sampling activities are outside the scope of INAB accreditation

Reports may not be reproduced except in full without the approval of ALS Life Sciences Ltd.

No INAB logo on the certificate indicates all results reported on the certificate are not accredited.

