



APPENDIX 9-2

SURFACE WATER SAMPLING LABORATORY REPORT

CERTIFICATE OF ANALYSIS



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

Certificate Number: CLN005936-1 Final
Date Reported: 13/03/2025
Date Analysis Started: 28/02/2025

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN17007	Prod: Rcvd Dt: 27/02/2025 Start Testing: 28/02/2025 Description: Maughanaclea SW1 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<1	mg/L O ₂	
		P243	Sulphate	<5.00	mg/L SO ₄	
		P281	Chloride	12.4	mg/L Cl	
		P285	Total Nitrogen	<1.0	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Nitrate	<1.0	mg/L NO ₃ N	
		P281	Nitrite	<0.01	mg/L NO ₂ N	
		P281	Ammonia	<0.02	mg/L NH ₃ -N	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	
CLN17008	Prod: Rcvd Dt: 27/02/2025 Start Testing: 28/02/2025 Description: Maughanaclea SW2 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	1	mg/L O ₂	
		P243	Sulphate	<5.00	mg/L SO ₄	
		P281	Chloride	7.8	mg/L Cl	
		P285	Total Nitrogen	<1.0	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Nitrate	<1.0	mg/L NO ₃ N	
		P281	Nitrite	<0.01	mg/L NO ₂ N	
		P281	Ammonia	<0.02	mg/L NH ₃ -N	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	
CLN17009	Prod: Rcvd Dt: 27/02/2025 Start Testing: 28/02/2025 Description: Maughanaclea SW3 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<1	mg/L O ₂	
		P243	Sulphate	<5.00	mg/L SO ₄	
		P281	Chloride	13.1	mg/L Cl	
		P285	Total Nitrogen	<1.0	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	<0.25	mg/L N	
		P281	Nitrate	<1.0	mg/L NO ₃ N	
		P281	Nitrite	<0.01	mg/L NO ₂ N	
		P281	Ammonia	<0.02	mg/L NH ₃ -N	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	



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Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN17010	Prod: Rcvd Dt: 27/02/2025 Start Testing: 28/02/2025 Description: Maughanaclea SW4 Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<1	mg/L O ₂	
		P243	Sulphate	<5.00	mg/L SO ₄	
		P281	Chloride	13.7	mg/L Cl	
		P285	Total Nitrogen	<1.0	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	0.45	mg/L N	
		P281	Nitrate	<1.0	mg/L NO ₃ N	
		P281	Nitrite	<0.01	mg/L NO ₂ N	
		P281	Ammonia	<0.02	mg/L NH ₃ -N	
		P207	Total Phosphorus	<0.10	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	

Certificate approved and electronically signed on 13/03/25 14:09

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

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CERTIFICATE OF ANALYSIS



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

Certificate Number: CLN024102-1 Final
Date Reported: 16/04/2025
Date Analysis Started: 10/04/2025

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN75878	Prod: Rcvd Dt: 10/04/2025 Start Testing: 10/04/2025 Description: Maugh SW1 Spt: Water Sample Type: Surface Waters	P243	Sulphate	<5.00	mg/L SO4	
		P281	Chloride	14.3	mg/L Cl	
		P285	Total Nitrogen	<1.0	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	
CLN75879	Prod: Rcvd Dt: 10/04/2025 Start Testing: 10/04/2025 Description: Maugh SW2 Spt: Water Sample Type: Surface Waters	P243	Sulphate	<5.00	mg/L SO4	
		P281	Chloride	10.1	mg/L Cl	
		P285	Total Nitrogen	<1.0	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	
CLN75880	Prod: Rcvd Dt: 10/04/2025 Start Testing: 10/04/2025 Description: Maugh SW3 Spt: Water Sample Type: Surface Waters	P243	Sulphate	<5.00	mg/L SO4	
		P281	Chloride	14.7	mg/L Cl	
		P285	Total Nitrogen	<1.0	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	



Certificate Number: CLN024102-1 Final

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Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN75881	Prod: Rcvd Dt: 10/04/2025 Start Testing: 10/04/2025 Description: Maugh SW4 Spt: Water Sample Type: Surface Waters	P243	Sulphate	<5.00	mg/L SO4	
		P281	Chloride	14.4	mg/L Cl	
		P285	Total Nitrogen	1.0	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	
CLN75882	Prod: Rcvd Dt: 10/04/2025 Start Testing: 10/04/2025 Description: Maugh SW5 Spt: Water Sample Type: Surface Waters	P243	Sulphate	<5.00	mg/L SO4	
		P281	Chloride	15.2	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	<0.10	mg/L P	
		P293	Orthophosphate	<0.02	mg/L P	

Certificate approved and electronically signed on 16/04/25 13:44

By Ciara Gildea, Senior Environmental Chemistry Analyst

For and on Behalf of ALS Life Sciences Ltd

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