



APPENDIX 9-2

LAB REPORTS

CERTIFICATE OF ANALYSIS



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

Certificate Number: CLN130804-1 Final
Date Reported: 06/11/2025
Date Analysis Started: 21/10/2025

Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN430524	Prod: Rcvd Dt: 21/10/2025 Start Testing: 21/10/2025 Description: SW1 Carrow Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<1	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	11.2	mg/L Cl	
		P285	Total Nitrogen	1.4	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	1.26	mg/L N	
		P281	Ammonia	<0.02	mg/L NH ₃ -N	
		P281	Nitrate	5.8	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	
CLN430525	Prod: Rcvd Dt: 21/10/2025 Start Testing: 21/10/2025 Description: SW2 Carrow Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<1	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	12.6	mg/L Cl	
		P285	Total Nitrogen	1.5	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	0.94	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	0.03	mg/L P	
CLN430526	Prod: Rcvd Dt: 21/10/2025 Start Testing: 21/10/2025 Description: SW3 Carrow Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<1	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	10.8	mg/L Cl	
		P285	Total Nitrogen	1.3	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	1.06	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	



Lab Ref.	Sample Details	Method Number	Test	Result	Units	Flag
CLN430527	Prod: Rcvd Dt: 21/10/2025 Start Testing: 21/10/2025 Description: SW4 Carrow Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<1	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	11.5	mg/L Cl	
		P285	Total Nitrogen	1.6	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	1.43	mg/L N	
		P281	Ammonia	0.02	mg/L NH ₃ -N	
		P281	Nitrate	6.2	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	
CLN430528	Prod: Rcvd Dt: 21/10/2025 Start Testing: 21/10/2025 Description: SW5 Carrow Spt: Water Sample Type: Surface Waters	P280	BOD 5 day Total	<1	mg/L O ₂	
		P202	Suspended Solids	<5	mg/L	
		P281	Chloride	11.5	mg/L Cl	
		P285	Total Nitrogen	1.4	mg/L N	
		P281	Total Oxidised Nitrogen (TON)	1.11	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 06/11/25 13:07

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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Report No: HYDR-626120225

Document No: EF0011

CERTIFICATE OF ANALYSIS

Date Submitted 12/02/2025
Date Reported 19/02/2025
Order Number N/A

Sample Type Effluent
Client ID Carrow Sw1
Date Tested 13/02/2025
ALS ID 6575099

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	10	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	16.4	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Total Oxidised Nitrogen	<0.25	mg/L N	P281
Nitrogen (Total)	1.3	mg/L N	P285
Orthophosphate	<0.02	mg/l P	P293

Sample Type Effluent
Client ID Carrow Sw2
Date Tested 13/02/2025
ALS ID 6575100

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<10	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	11.5	mg/l Cl	P281
Nitrate	8.6	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Total Oxidised Nitrogen	1.93	mg/L N	P281
Nitrogen (Total)	2.5	mg/L N	P285
Orthophosphate	<0.02	mg/l P	P293

Report Authorised by:

David Kinsella



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CERTIFICATE OF ANALYSIS

Date Submitted 12/02/2025
Date Reported 19/02/2025
Order Number N/A

Sample Type Effluent
Client ID Carrow Sw3
Date Tested 13/02/2025
ALS ID 6575101

<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	<1	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	12.2	mg/l Cl	P281
Nitrate	6.8	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Total Oxidised Nitrogen	1.53	mg/L N	P281
Nitrogen (Total)	2.0	mg/L N	P285
Orthophosphate	<0.02	mg/l P	P293

Sample Type Effluent
Client ID Carrow Sw4
Date Tested 13/02/2025
ALS ID 6575102

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<10	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	13.4	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Total Oxidised Nitrogen	1.11	mg/L N	P281
Nitrogen (Total)	1.2	mg/L N	P285
Orthophosphate	<0.02	mg/l P	P293

Report Authorised by:

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CERTIFICATE OF ANALYSIS

Date Submitted 12/02/2025
Date Reported 19/02/2025
Order Number N/A

Sample Type Effluent
Client ID Carrow Sw5
Date Tested 13/02/2025
ALS ID 6575103

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	<10	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	<1	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	10.6	mg/l Cl	P281
Nitrate	5.9	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Total Oxidised Nitrogen	1.33	mg/L N	P281
Nitrogen (Total)	1.5	mg/L N	P285
Orthophosphate	<0.02	mg/l P	P293

Report Authorised by:

David Kinsella