



ALS Life Sciences Ltd trading as ALS  
Carrigeen Business Park, Clonmel, Co. Tipperary  
Telephone: +353 (0) 52 617 8100



Report No: HYDR-767010824

Document No: EF0011

## CERTIFICATE OF ANALYSIS

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

**Date Submitted** 01/08/2024  
**Date Reported** 22/08/2024  
**Order Number** P1605-0

**For the Attention of:** Hydro Environmental Services  
**Sample Reception** 4 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 as received
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/cm<sup>2</sup> 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
10. Statement of conformity made against the result does not take into account the uncertainty of measurement associated with the method



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## CERTIFICATE OF ANALYSIS

Date Submitted 01/08/2024

Date Reported 22/08/2024

Order Number P1605-0

Sample Type Water  
Client ID P1605 - Fort East SW2 10:00am 31/07/2024  
Date Tested 01/08/2024  
ALS ID 6263906

Test	Result	Unit	Method
Suspended Solids	<7	mg / l	P202
Phosphorus	0.22	mg/l P	P207
BOD 5 day Total	<1	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	18.3	mg/l Cl	P281
Nitrate	6.9	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	1.54	mg/L N	P281
Nitrogen (Total)	1.8	mg/L N	P285

Sample Type Water  
Client ID P1605 - Fort East SW3 10:15am 31/07/2024  
Date Tested 01/08/2024  
ALS ID 6263907

Test	Result	Unit	Method
Suspended Solids	<6	mg / l	P202
Phosphorus	0.14	mg/l P	P207
BOD 5 day Total	1	mg/l O2	P280
Ammonia	0.03	mg/l NH3-N	P281
Chloride	23.5	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	1.03	mg/L N	P281
Nitrogen (Total)	1.9	mg/L N	P285

Report Authorised by:

*Rosemary Thomas*



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## CERTIFICATE OF ANALYSIS

Date Submitted 01/08/2024

Date Reported 22/08/2024

Order Number P1605-0

Sample Type Water  
Client ID P1605 - Fort East SW4 10:40am 31/07/2024  
Date Tested 01/08/2024  
ALS ID 6263908

Test	Result	Unit	Method
Suspended Solids	33	mg / l	P202
Phosphorus	0.24	mg/l P	P207
BOD 5 day Total	1	mg/l O2	P280
Ammonia	0.03	mg/l NH3-N	P281
Chloride	79.7	mg/l Cl	P281
Nitrate	50.2	mg/l NO3	P281
Nitrite	0.13	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	11.37	mg/L N	P281
Nitrogen (Total)	11.7	mg/L N	P285

Sample Type Water  
Client ID P1605 - Fort East SW5 10:55am 31/07/2024  
Date Tested 01/08/2024  
ALS ID 6263909

Test	Result	Unit	Method
Suspended Solids	<6	mg / l	P202
Phosphorus	0.12	mg/l P	P207
BOD 5 day Total	1	mg/l O2	P280
Ammonia	0.03	mg/l NH3-N	P281
Chloride	54.5	mg/l Cl	P281
Nitrate	7.8	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	1.76	mg/L N	P281
Nitrogen (Total)	2.1	mg/L N	P285

Report Authorised by:

*Rosemary Thomas*



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Report No: HYDR-848260324

Document No: EF0011

## CERTIFICATE OF ANALYSIS

<b>Client</b>	<b>Hydro Environmental Services</b> 22 Lower Main Street Dungarvan Co. Waterford	<b>Date Submitted</b>	26/03/2024
		<b>Date Reported</b>	10/04/2024
		<b>Order Number</b>	P1605-0
<b>For the Attention of:</b>	Hydro Environmental Services		
<b>Sample Reception</b>	5 sample(s) received in good condition.		
<b>Comments</b>	N/A		

Report Authorised by:

Rosemary Thomas  
Environmental Chemistry Manager

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Report No: HYDR-848260324

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## CERTIFICATE OF ANALYSIS

Date Submitted 26/03/2024

Date Reported 10/04/2024

Order Number P1605-0

Sample Type Water  
Client ID P1605 - Fort East SW1 10:30AM 26/03/2024  
Date Tested 27/03/2024  
ALS ID 6054294

Test	Result	Unit	Method
Suspended Solids	<5	mg / l	P202
Phosphorus	0.2	mg/l P	P207
BOD 5 day Total	3	mg/l O2	P280
Ammonia	0.04	mg/l NH3-N	P281
Chloride	6.4	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.04	mg/l P	P281
Total Oxidised Nitrogen	0.88	mg/L N	P281
Nitrogen (Total)	<1.0	mg/L N	P285

Sample Type Water  
Client ID P1605 - Fort East SW2 11:00AM 26/03/2024  
Date Tested 27/03/2024  
ALS ID 6054295

Test	Result	Unit	Method
Suspended Solids	16	mg / l	P202
Phosphorus	0.1	mg/l P	P207
BOD 5 day Total	3	mg/l O2	P280
Ammonia	0.07	mg/l NH3-N	P281
Chloride	17.2	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.06	mg/l P	P281
Total Oxidised Nitrogen	0.88	mg/L N	P281
Nitrogen (Total)	2.1	mg/L N	P285

Report Authorised by:

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Date Submitted 26/03/2024

Date Reported 10/04/2024

Order Number P1605-0

Sample Type Water  
Client ID P1605 - Fort East SW3 11:15AM 26/03/2024  
Date Tested 27/03/2024  
ALS ID 6054296

Test	Result	Unit	Method
Suspended Solids	32	mg / l	P202
Phosphorus	0.2	mg/l P	P207
BOD 5 day Total	5	mg/l O2	P280
Ammonia	0.16	mg/l NH3-N	P281
Chloride	11.0	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.12	mg/l P	P281
Total Oxidised Nitrogen	0.99	mg/L N	P281
Nitrogen (Total)	1.9	mg/L N	P285

Sample Type Water  
Client ID P1605 - Fort East SW4 11:40AM 26/03/2024  
Date Tested 27/03/2024  
ALS ID 6054297

Test	Result	Unit	Method
Suspended Solids	86	mg / l	P202
Phosphorus	0.1	mg/l P	P207
BOD 5 day Total	6	mg/l O2	P280
Ammonia	0.17	mg/l NH3-N	P281
Chloride	11.8	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.12	mg/l P	P281
Total Oxidised Nitrogen	1.01	mg/L N	P281
Nitrogen (Total)	2.7	mg/L N	P285

Report Authorised by:

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### CERTIFICATE OF ANALYSIS

**Date Submitted** 26/03/2024  
**Date Reported** 10/04/2024  
**Order Number** P1605-0

**Sample Type** Water  
**Client ID** P1605 - Fort East SW5 11:55AM 26/03/2024  
**Date Tested** 27/03/2024  
**ALS ID** 6054298

<u>Test</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Suspended Solids	32	mg / l	P202
Phosphorus	0.2	mg/l P	P207
BOD 5 day Total	4	mg/l O2	P280
Ammonia	0.11	mg/l NH3-N	P281
Chloride	11.0	mg/l Cl	P281
Nitrate	<5.0	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.08	mg/l P	P281
Total Oxidised Nitrogen	0.54	mg/L N	P281
Nitrogen (Total)	1.8	mg/L N	P285

Report Authorised by:

*Rosemary Thomas*

© **HYDRO-ENVIRONMENTAL SERVICES**

22 Lower Main Street, Dungarvan, Co. Waterford, X35 HK11  
T: +353-(0)58-441 22 F: +353-(0)58-442 44 E: [info@hydroenvironmental.ie](mailto:info@hydroenvironmental.ie)

[www.hydroenvironmental.ie](http://www.hydroenvironmental.ie)