



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



Report No: HYDR-909130624

Document No: EF0011

RECEIVED: 03/07/2025

## CERTIFICATE OF ANALYSIS

<b>Client</b>	<b>Hydro Environmental Services</b> 22 Lower Main Street Dungarvan Co. Waterford	<b>Date Submitted</b>	13/06/2024
		<b>Date Reported</b>	09/07/2024
		<b>Order Number</b>	P1657-0
<b>For the Attention of:</b>	Hydro Environmental Services		
<b>Sample Reception</b>	4 sample(s) received in good condition.		
<b>Comments</b>	N/A		

Report Authorised by:

*Rosemary Thomas*

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
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## CERTIFICATE OF ANALYSIS

Date Submitted 13/06/2024

Date Reported 09/07/2024

Order Number P1657-0

Sample Type Water  
Client ID P1657 Briskalagh SW1 10:30am 13/06/2024  
Date Tested 14/06/2024  
ALS ID 6183221

Test	Result	Unit	Method
Suspended Solids	11	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	11.8	mg/l Cl	P281
Nitrate	10.5	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	2.36	mg/L N	P281
Nitrogen (Total)	3.1	mg/L N	P285

Sample Type Water  
Client ID P1657 Briskalagh SW22 10:45am 13/06/2024  
Date Tested 14/06/2024  
ALS ID 6183222

Test	Result	Unit	Method
Suspended Solids	10	mg / l	P202
Phosphorus	0.23	mg/l P	P207
BOD 5 day Total	9	mg/l O2	P280
Ammonia	0.03	mg/l NH3-N	P281
Chloride	12.8	mg/l Cl	P281
Nitrate	10.5	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.10	mg/l P	P281
Total Oxidised Nitrogen	2.39	mg/L N	P281
Nitrogen (Total)	2.7	mg/L N	P285

Report Authorised by:

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Environmental Chemistry Manager



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## CERTIFICATE OF ANALYSIS

Date Submitted 13/06/2024

Date Reported 09/07/2024

Order Number P1657-0

Sample Type Water  
Client ID P1657 Briskalagh SW3 11:15am 13/06/2024  
Date Tested 14/06/2024  
ALS ID 6183223

Test	Result	Unit	Method
Suspended Solids	15	mg / l	P202
Phosphorus	0.25	mg/l P	P207
BOD 5 day Total	8	mg/l O2	P280
Ammonia	0.41	mg/l NH3-N	P281
Chloride	15.1	mg/l Cl	P281
Nitrate	9.6	mg/l NO3	P281
Nitrite	0.11	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	2.19	mg/L N	P281
Nitrogen (Total)	3.6	mg/L N	P285

Sample Type Water  
Client ID P1657 Briskalagh SW4 11:30am 13/06/2024  
Date Tested 14/06/2024  
ALS ID 6183224

Test	Result	Unit	Method
Suspended Solids	<8	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	3	mg/l O2	P280
Ammonia	<0.02	mg/l NH3-N	P281
Chloride	16.7	mg/l Cl	P281
Nitrate	16.8	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	3.79	mg/L N	P281
Nitrogen (Total)	3.8	mg/L N	P285

Report Authorised by:

*Rosemary Thomas*



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Report No: HYDR-795110724

Document No: EF0011

RECEIVED: 03/07/2025

## CERTIFICATE OF ANALYSIS

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

**Date Submitted** 11/07/2024  
**Date Reported** 26/07/2024  
**Order Number** 1657-0

**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

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Document No: EF0011

## CERTIFICATE OF ANALYSIS

Date Submitted 11/07/2024

Date Reported 26/07/2024

Order Number 1657-0

**Sample Type** Surface Water  
**Client ID** P1657 Briskalagh SW1 10/07/2024 @ 09.30am  
**Date Tested** 11/07/2024  
**ALS ID** 6232230

Test	Result	Unit	Method
Suspended Solids	<8	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Ammonia	0.03	mg/l NH3-N	P281
Chloride	14.5	mg/l Cl	P281
Nitrate	9.3	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	2.10	mg/L N	P281
Nitrogen (Total)	2.2	mg/L N	P285

**Sample Type** Surface Water  
**Client ID** P1657 Briskalagh SW2 10/07/2024 @ 09.45am  
**Date Tested** 11/07/2024  
**ALS ID** 6232231

Test	Result	Unit	Method
Suspended Solids	21	mg / l	P202
Phosphorus	0.36	mg/l P	P207
BOD 5 day Total	3	mg/l O2	P280
Ammonia	0.04	mg/l NH3-N	P281
Chloride	26.6	mg/l Cl	P281
Nitrate	11.4	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	0.19	mg/l P	P281
Total Oxidised Nitrogen	2.58	mg/L N	P281
Nitrogen (Total)	3.4	mg/L N	P285

Report Authorised by:

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Environmental Chemistry Manager



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## CERTIFICATE OF ANALYSIS

Date Submitted 11/07/2024

Date Reported 26/07/2024

Order Number 1657-0

Sample Type Surface Water  
Client ID P1657 Briskalagh SW3 11/07/2024 @ 10.15am  
Date Tested 11/07/2024  
ALS ID 6232232

Test	Result	Unit	Method
Suspended Solids	<6	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	2	mg/l O2	P280
Ammonia	0.05	mg/l NH3-N	P281
Chloride	16.5	mg/l Cl	P281
Nitrate	7.8	mg/l NO3	P281
Nitrite	0.06	mg/l NO2	P281
Orthophosphate	0.02	mg/l P	P281
Total Oxidised Nitrogen	1.78	mg/L N	P281
Nitrogen (Total)	2.0	mg/L N	P285

Sample Type Surface Water  
Client ID P1657 Briskalagh SW4 10/07/2024 @ 11.00am  
Date Tested 11/07/2024  
ALS ID 6232233

Test	Result	Unit	Method
Suspended Solids	<7	mg / l	P202
Phosphorus	<0.10	mg/l P	P207
BOD 5 day Total	3	mg/l O2	P280
Ammonia	0.03	mg/l NH3-N	P281
Chloride	17.6	mg/l Cl	P281
Nitrate	16.1	mg/l NO3	P281
Nitrite	<0.05	mg/l NO2	P281
Orthophosphate	<0.02	mg/l P	P281
Total Oxidised Nitrogen	3.65	mg/L N	P281
Nitrogen (Total)	3.3	mg/L N	P285

Report Authorised by:

*Rosemary Thomas*

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

**Certificate Code:** AR-24-M3-016761-01

**Page Number:** Page 1 of 6

**PO reference:**

## Certificate of Analysis

Sample number	966-2024-00019316	Received on	11/07/2024
Your sample reference	Briskalagh MW01	Analysis started on	11/07/2024
Sample Matrix	Ground water		
Sample Condition on Arrival	Satisfactory	Sample Date	10/07/2024
Time Sampled	10:00		

Test Code Analyte	SUB <sup>5</sup> Analysis Started	Method	LOQ <sup>3</sup>	SPEC <sup>2</sup>	Result	Units	ACCRED <sup>4</sup>
<b>Chemical Oxygen Demand (COD) [M3004]</b>							
Chemical oxygen demand (COD)	12/07/24 14:03	EW094	8		<8	mg/l	C6
<b>Total Dissolved Solids (TDS) [M3006]</b>							
Total dissolved solids @ 180°C	12/07/24 10:23	EW046	15		315	mg/l	C6
<b>Total Nitrogen [M3007]</b>							
Total Nitrogen	19/07/24 09:27	EW140	1		2.21	mg/l	C6
<b>Sulphate mg/L - Gallery [M300N]</b>							
Sulphate mg/L - Gallery	11/07/24 17:55	EW175	1		9.32	mg/l	C6
<b>Phosphate (Ortho/MRP) as P - Gallery [M300P]</b>							
Phosphate (Ortho/MRP) as P - Gallery	11/07/24 17:55	EW175	0.01		0.0120	mg/l	C6
<b>Chloride mg/L - Gallery [M300S]</b>							
Chloride mg/L - Gallery	11/07/24 17:55	EW175	5		14.8	mg/l	C6
<b>Nitrite (as N) - Gallery [M3016]</b>							
Nitrite (as N) - Gallery	11/07/24 17:55	EW175	0.01		<0.01	mg/l	C6
<b>Nitrate (as N) - Gallery [M301A]</b>							
Nitrate (as N) - Gallery	11/07/24 17:55	EW175	1		2.48	mg/l	C6
<b>Total Phosphorus-TP [M3045]</b>							
Total Phosphorus-TP	12/07/24 11:57	EW146	0.02		<0.02	mg/l	
<b>Biochemical Oxygen Demand (BOD) Robotic Method [M304E]</b>							
Biochemical oxygen demand (BOD) 5d by Robotic Method	12/07/24 10:10 <sup>7A</sup>	Ew001R	1		<1	mg/l	
<b>pH (Robotic Method) [M3051]</b>							
pH	11/07/24 19:26 <sup>7D</sup>	EW152R	4		7.1		
<b>Conductivity at 20°C (Robotic Method) [M3052]</b>							

Signed: \_\_\_\_\_

Niamh Ward - Senior Laboratory Analyst

23/07/2024

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8. This notification is based on the numerical result for the test without consideration of the uncertainty of measurement of the result, unless otherwise agreed in writing. Uncertainty of measurement has been calculated for all INAB accredited tests and is available upon request.
9. Report is issued as per our standard T&C of sale.

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

**Certificate Code:** AR-24-M3-016761-01

**Page Number:** Page 2 of 6

**PO reference:**

Sample number	966-2024-00019316	Received on	11/07/2024
Your sample reference	Briskalagh MW01	Analysis started on	11/07/2024
Sample Matrix	Ground water		
Sample Condition on Arrival	Satisfactory	Sample Date	10/07/2024
Time Sampled	10:00		

Test Code Analyte	SUB <sup>5</sup> Analysis Started	Method	LOQ <sup>3</sup>	SPEC <sup>2</sup>	Result	Units	ACCRED <sup>4</sup>
Conductivity at 20°C	11/07/24 19:26	EW152R	5		556	µS/cm	C6
<b>Boron - Dissolved [M3163]</b>							
Boron (B)	15/07/24 16:58	EW188	0.21		<0.21	mg/l	C6
<b>Cadmium - Dissolved [M3164]</b>							
Cadmium (Cd)	15/07/24 16:58	EW188			<0.1	µg/l	C6
<b>Copper - Dissolved [M3168]</b>							
Copper (Cu)	15/07/24 16:58	EW188	0.003		<0.003	mg/l	C6
<b>Iron - Dissolved [M3172]</b>							
Iron (Fe)	15/07/24 16:58	EW188	5		<5	µg/l	C6
<b>Lead - Dissolved [M3173]</b>							
Lead (Pb)	15/07/24 16:58	EW188	0.51		<0.51	µg/l	C6
<b>Magnesium - Dissolved [M3174]</b>							
Magnesium (Mg)	15/07/24 16:58	EW188	1.11		13.7	mg/l	C6
<b>Manganese - Dissolved [M3175]</b>							
Manganese (Mn)	15/07/24 16:58	EW188			15.8	µg/l	C6
<b>Nickel - Dissolved [M3178]</b>							
Nickel (Ni)	15/07/24 16:58	EW188			<0.5	µg/l	C6
<b>Potassium - Dissolved [M3180]</b>							
Potassium (K)	15/07/24 16:58	EW188	0.15		1.55	mg/l	C6
<b>Sodium - Dissolved [M3184]</b>							
Sodium (Na)	15/07/24 16:58	EW188	1.5		9.42	mg/l	C6
<b>Zinc - Dissolved [M3194]</b>							
Zinc (Zn)	15/07/24 16:58	EW188	1		1.17	µg/l	C6
<b>Ammonia (Gallery) [M3278]</b>							
Ammonia as N	11/07/24 17:55	EW175			0.0750	mg/l	

Signed: \_\_\_\_\_

Niamh Ward - Senior Laboratory Analyst

23/07/2024

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**Page Number:** Page 3 of 6

**PO reference:**

Sample number	966-2024-00019316	Received on	11/07/2024
Your sample reference	Briskalagh MW01	Analysis started on	11/07/2024
Sample Matrix	Ground water		
Sample Condition on Arrival	Satisfactory	Sample Date	10/07/2024
Time Sampled	10:00		

Test Code Analyte	SUB <sup>5</sup>	Analysis Started	Method	LOQ <sup>3</sup>	SPEC <sup>2</sup>	Result	Units	ACCRED <sup>4</sup>
<b>TPH 3 Band (C6-10-21-40) in water [M502B]</b>								
TPH >C10-C21	*	12/07/24 12:23		0.1		<0.1	µg/l	
TPH >C21-C40	*	12/07/24 12:23		0.1		<0.1	µg/l	
TPH >C6-C10	*	12/07/24 12:23		0.1		<0.1	µg/l	
TPH Total >C6-C40	*	12/07/24 12:23		10		<10	µg/l	
<b>Oils, fats and grease water (HEM) gravimetric [RZPGR]</b>								
Oil, fat and grease (HEM)	*	11/07/24 17:38		10		<10	mg/l	JV
<b>Coliforms [XD002]</b>								
Coliforms	*	11/07/24 17:31				0	cfu/100 ml	
<b>Escherichia coli, confirmed [XD005]</b>								
Escherichia coli, confirmed	*	11/07/24 17:31				0	cfu/100 ml	
<b>Faecal Coliforms 44°C 0 - 80 cfu/100ml [XD012]</b>								
Faecal Coliforms 44°	*	11/07/24 17:31				0	cfu/100 ml	

#### <sup>4</sup> Accreditation Information

C6: ISO/IEC 17025:2017 INAB 138-T

JV: SFS-EN ISO/IEC 17025:2017 FINAS T039

Signed: \_\_\_\_\_



Niamh Ward - Senior Laboratory Analyst

23/07/2024

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**Certificate Code:** AR-24-M3-016761-01

**Page Number:** Page 4 of 6

**PO reference:**

**Sample number** 966-2024-00019317

**Received on** 11/07/2024

**Your sample reference** Briskalagh MW02

**Analysis started on** 11/07/2024

**Sample Matrix** Ground water

**Sample Condition on Arrival** Satisfactory

**Sample Date** 10/07/2024

**Time Sampled** 11:00

Test Code Analyte	SUB <sup>5</sup> Analysis Started	Method	LOQ <sup>3</sup>	SPEC <sup>2</sup>	Result	Units	ACCRED <sup>4</sup>
<b>Chemical Oxygen Demand (COD) [M3004]</b>							
Chemical oxygen demand (COD)	12/07/24 14:03	EW094	8		<8	mg/l	C6
<b>Total Dissolved Solids (TDS) [M3006]</b>							
Total dissolved solids @ 180°C	12/07/24 10:23	EW046	15		356	mg/l	C6
<b>Total Nitrogen [M3007]</b>							
Total Nitrogen	16/07/24 17:18	EW140	1		1.54	mg/l	C6
<b>Sulphate mg/L - Gallery [M300N]</b>							
Sulphate mg/L - Gallery	11/07/24 17:55	EW175	1		7.34	mg/l	C6
<b>Phosphate (Ortho/MRP) as P - Gallery [M300P]</b>							
Phosphate (Ortho/MRP) as P - Gallery	11/07/24 17:55	EW175	0.01		0.0530	mg/l	C6
<b>Chloride mg/L - Gallery [M300S]</b>							
Chloride mg/L - Gallery	11/07/24 17:55	EW175	5		13.1	mg/l	C6
<b>Nitrite (as N) - Gallery [M3016]</b>							
Nitrite (as N) - Gallery	11/07/24 17:55	EW175	0.01		<0.01	mg/l	C6
<b>Nitrate (as N) - Gallery [M301A]</b>							
Nitrate (as N) - Gallery	11/07/24 17:55	EW175	1		1.76	mg/l	C6
<b>Total Phosphorus-TP [M3045]</b>							
Total Phosphorus-TP	12/07/24 11:43	EW146	0.02		0.0200	mg/l	C6
<b>Biochemical Oxygen Demand (BOD) Robotic Method [M304E]</b>							
Biochemical oxygen demand (BOD) 5d by Robotic Method	12/07/24 10:10	Ew001R	1		1.20	mg/l	C6
<b>pH (Robotic Method) [M3051]</b>							
pH	11/07/24 19:26 <sup>7D</sup>	EW152R	4		7.0		
<b>Conductivity at 20°C (Robotic Method) [M3052]</b>							
Conductivity at 20°C	11/07/24 19:26	EW152R	5		602	µS/cm	C6
<b>Boron - Dissolved [M3163]</b>							

Signed: \_\_\_\_\_



Niamh Ward - Senior Laboratory Analyst

23/07/2024

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9. Report is issued as per our standard T&C of sale.

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

**Certificate Code:** AR-24-M3-016761-01

**Page Number:** Page 5 of 6

**PO reference:**

Sample number	966-2024-00019317	Received on	11/07/2024
Your sample reference	Briskalagh MW02	Analysis started on	11/07/2024
Sample Matrix	Ground water		
Sample Condition on Arrival	Satisfactory	Sample Date	10/07/2024
Time Sampled	11:00		

Test Code Analyte	SUB <sup>5</sup> Analysis Started	Method	LOQ <sup>3</sup>	SPEC <sup>2</sup>	Result	Units	ACCRED <sup>4</sup>
Boron (B)	15/07/24 16:58	EW188	0.21		<0.21	mg/l	C6
<b>Cadmium - Dissolved [M3164]</b>							
Cadmium (Cd)	15/07/24 16:58	EW188			<0.1	µg/l	C6
<b>Copper - Dissolved [M3168]</b>							
Copper (Cu)	15/07/24 16:58	EW188	0.003		<0.003	mg/l	C6
<b>Iron - Dissolved [M3172]</b>							
Iron (Fe)	15/07/24 16:58	EW188	5		<5	µg/l	C6
<b>Lead - Dissolved [M3173]</b>							
Lead (Pb)	15/07/24 16:58	EW188	0.51		<0.51	µg/l	C6
<b>Magnesium - Dissolved [M3174]</b>							
Magnesium (Mg)	15/07/24 16:58	EW188	1.11		11.8	mg/l	C6
<b>Manganese - Dissolved [M3175]</b>							
Manganese (Mn)	15/07/24 16:58	EW188			5.28	µg/l	C6
<b>Nickel - Dissolved [M3178]</b>							
Nickel (Ni)	15/07/24 16:58	EW188			0.793	µg/l	C6
<b>Potassium - Dissolved [M3180]</b>							
Potassium (K)	15/07/24 16:58	EW188	0.15		1.80	mg/l	C6
<b>Sodium - Dissolved [M3184]</b>							
Sodium (Na)	15/07/24 16:58	EW188	1.5		8.87	mg/l	C6
<b>Zinc - Dissolved [M3194]</b>							
Zinc (Zn)	15/07/24 16:58	EW188	1		13.9	µg/l	C6
<b>Ammonia (Gallery) [M3278]</b>							
Ammonia as N	11/07/24 17:55	EW175			<0.05	mg/l	
<b>TPH 3 Band (C6-10-21-40) in water [M502B]</b>							
TPH >C10-C21	* 12/07/24 12:23		0.1		<0.1	µg/l	

Signed: \_\_\_\_\_



Niamh Ward - Senior Laboratory Analyst

23/07/2024

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**Certificate Code:** AR-24-M3-016761-01

**Page Number:** Page 6 of 6

**PO reference:**

**Sample number** 966-2024-00019317

**Received on** 11/07/2024

**Your sample reference** Briskalagh MW02

**Analysis started on** 11/07/2024

**Sample Matrix** Ground water

**Sample Condition on Arrival** Satisfactory

**Sample Date** 10/07/2024

**Time Sampled** 11:00

Test Code Analyte	SUB <sup>5</sup>	Analysis Started	Method	LOQ <sup>3</sup>	SPEC <sup>2</sup>	Result	Units	ACCRED <sup>4</sup>
TPH >C21-C40	*	12/07/24 12:23		0.1		<0.1	µg/l	
TPH >C6-C10	*	12/07/24 12:23		0.1		<0.1	µg/l	
TPH Total >C6-C40	*	12/07/24 12:23		10		<10	µg/l	
<b>Oils, fats and grease water (HEM) gravimetric [RZPGR]</b>								
Oil, fat and grease (HEM)	*	11/07/24 17:38		10		<10	mg/l	JV
<b>Coliforms [XD002]</b>								
Coliforms	*	11/07/24 17:31				365	cfu/100 ml	
<b>Escherichia coli, confirmed [XD005]</b>								
Escherichia coli, confirmed	*	11/07/24 17:31				186	cfu/100 ml	
<b>Faecal Coliforms 44°C 0 - 80 cfu/100ml [XD012]</b>								
Faecal Coliforms 44°	*	11/07/24 17:31				100	cfu/100 ml	

#### <sup>4</sup> Accreditation Information

C6: ISO/IEC 17025:2017 INAB 138-T

JV: SFS-EN ISO/IEC 17025:2017 FINAS T039

Signed: \_\_\_\_\_



Niamh Ward - Senior Laboratory Analyst

23/07/2024

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