



APPENDIX 9-2

LAB REPORTS



ENVIRONMENTAL LABORATORY SERVICES
EXCELLENCE THROUGH ACCREDITATION

**ENVIRONMENTAL
LABORATORY SERVICES**

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email: info@elsltd.com



DETAILED IN SCOPE REG NO.1111

Contact Name	David Broderick	Report Number	196737 - 1
Address	Hydro-Environmental Services 22, Lower Main Street, Dungarvan,	Sample Number	196737/001
		Date of Receipt	25/03/2021
		Date Started	25/03/2021
Tel No	058 44122	Received or Collected	Hand
Customer PO	Per Batch	Date of Report	19/04/2021
Project No.	QN010649	Sample Type	Ground Waters
Customer Ref	Brian Fallon Well	Condition on receipt	Satisfactory

CERTIFICATE OF ANALYSIS

TEST	ANALYTE	SUB	METHOD	LOQ	SPEC	RESULT	UNITS	ACCRED.
Gallery Plus-Suite A								
	Ammonia as N		EW175	0.005		<0.005	mg/l N	INAB
	Ammonium as NH4 (calc)		EW175	0.006		<0.006	mg/l NH4	INAB
	Nitrate as N		EW175	0.15		1.8	mg/l N	INAB
	Nitrite as N		EW175	0.005		<0.005	mg/l N	INAB
	Phosphate (Ortho/MRP) as P		EW175	0.005		0.007	mg/l P	INAB
	Chloride mg/L		EW175	1.0		16	mg/L	INAB
	Sulphate mg/L		EW175	1.0		5.5	mg/L	INAB
Metals-Dissolved								
	Hardness-Dissolved		EW188	3.0		410	mg/L CaCO3	
	Iron-Dissolved		EW188	20		<1.0	ug/L	YES
	Manganese-Dissolved		EW188	1.0		<1.0	ug/L	YES
	Aluminium-Dissolved		EW188	5.0		<2.0	ug/L	YES
	Arsenic-Dissolved		EW188	0.2		0.7	ug/L	YES
	Calcium-Dissolved		EW188	1.0		160	mg/L	
	Magnesium-Dissolved		EW188	0.3		6.2	mg/L	YES
	<i>Subcontracted</i>							
	Potassium-Dissolved		EW188	0.2		3.0	mg/L	YES
	Sodium-Dissolved		EW188	0.5		7.7	mg/L	YES
Titralab								
	pH		EW153	0.0		7.1	pH Units	INAB
	Conductivity @20 DegC		EW153	25		744	uscM-1@20	INAB
	Alkalinity Total (R2 pH4.5)		EW153	10		416	mg/L CaCO3	INAB

Signed :

19/04/2021

Máire Bradley-Deputy Technical Manager

NOTES

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Contact Name	David Broderick	Report Number	196737 - 1
Address	Hydro-Environmental Services 22, Lower Main Street, Dungarvan,	Sample Number	196737/002
		Date of Receipt	25/03/2021
		Date Started	25/03/2021
Tel No	058 44122	Received or Collected	Hand
Customer PO	Per Batch	Date of Report	19/04/2021
Project No.	QN010649	Sample Type	Ground Waters
Customer Ref	Noel Fallon Well	Condition on receipt	Satisfactory

CERTIFICATE OF ANALYSIS

TEST	ANALYTE	SUB	METHOD	LOQ	SPEC	RESULT	UNITS	ACCRED.
Gallery Plus-Suite A								
	Ammonia as N		EW175	0.005		0.015	mg/l N	INAB
	Ammonium as NH4 (calc)		EW175	0.006		0.020	mg/l NH4	INAB
	Nitrate as N		EW175	0.15		1.7	mg/l N	INAB
	Nitrite as N		EW175	0.005		<0.005	mg/l N	INAB
	Phosphate (Ortho/MRP) as P		EW175	0.005		0.008	mg/l P	INAB
	Chloride mg/L		EW175	1.0		22	mg/L	INAB
	Sulphate mg/L		EW175	1.0		5.0	mg/L	INAB
Metals-Dissolved								
	Hardness-Dissolved		EW188	3.0		350	mg/L CaCO3	
	Iron-Dissolved		EW188	20		7.6	ug/L	YES
	Manganese-Dissolved		EW188	1.0		<1.0	ug/L	YES
	Aluminium-Dissolved		EW188	5.0		<2.0	ug/L	YES
	Arsenic-Dissolved		EW188	0.2		0.5	ug/L	YES
	Calcium-Dissolved		EW188	1.0		130	mg/L	
	Magnesium-Dissolved		EW188	0.3		3.9	mg/L	YES
	Potassium-Dissolved		EW188	0.2		4.6	mg/L	YES
	Sodium-Dissolved		EW188	0.5		10.5	mg/L	YES
Titralab								
	pH		EW153	0.0		7.3	pH Units	INAB
	Conductivity @20 DegC		EW153	25		670	uscm-1@20	INAB
	Alkalinity Total (R2 pH4.5)		EW153	10		362	mg/L CaCO3	INAB

Signed :

Maire Bradley

19/04/2021

Maire Bradley-Deputy Technical Manager

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Contact Name	David Broderick	Report Number	196737 - 1
Address	Hydro-Environmental Services 22, Lower Main Street, Dungarvan,	Sample Number	196737/003
Tel No	058 44122	Date of Receipt	25/03/2021
Customer PO	Per Batch	Date Started	25/03/2021
Project No.	QN010649	Received or Collected	Hand
Customer Ref	Commons Turlough	Date of Report	19/04/2021
		Sample Type	Ground Waters
		Condition on receipt	Satisfactory

CERTIFICATE OF ANALYSIS

TEST	ANALYTE	SUB	METHOD	LOQ	SPEC	RESULT	UNITS	ACCRED.
Gallery Plus-Suite A								
	Ammonia as N		EW175	0.005		<0.005	mg/l N	INAB
	Ammonium as NH4 (calc)		EW175	0.006		<0.006	mg/l NH4	INAB
	Nitrate as N		EW175	0.15		0.16	mg/l N	INAB
	Nitrite as N		EW175	0.005		<0.005	mg/l N	INAB
	Phosphate (Ortho/MRP) as P		EW175	0.005		0.007	mg/l P	INAB
	Chloride mg/L		EW175	1.0		13	mg/L	INAB
	Sulphate mg/L		EW175	1.0		1.2	mg/L	INAB
Metals-Dissolved								
	Hardness-Dissolved		EW188	3.0		190	mg/L CaCO3	YES
	Iron-Dissolved		EW188	20		6.41	ug/L	YES
	Manganese-Dissolved		EW188	1.0		<1.0	ug/L	YES
	Aluminium-Dissolved		EW188	5.0		8.7	ug/L	YES
	Arsenic-Dissolved		EW188	0.2		0.5	ug/L	YES
<i>Subcontracted</i>								
	Calcium-Dissolved		EW188	1.0		69	mg/L	YES
	Magnesium-Dissolved		EW188	0.3		3.4	mg/L	YES
	Potassium-Dissolved		EW188	0.2		2.1	mg/L	YES
	Sodium-Dissolved		EW188	0.5		6.2	mg/L	YES
Titralab								
	pH		EW153	0.0		8.5	pH Units	INAB
	Conductivity @20 DegC		EW153	25		291	uscm-1@20	INAB
	Alkalinity Total (R2 pH4.5)		EW153	10		148	mg/L CaCO3	INAB

Signed :

19/04/2021

Máire Bradley-Deputy Technical Manager

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Contact Name	David Broderick	Report Number	196737 - 1
Address	Hydro-Environmental Services 22, Lower Main Street, Dungarvan,	Sample Number	196737/004
		Date of Receipt	25/03/2021
		Date Started	25/03/2021
Tel No	058 44122	Received or Collected	Hand
Customer PO	Per Batch	Date of Report	19/04/2021
Project No.	QN010649	Sample Type	Ground Waters
Customer Ref	Thomas Street Turlough	Condition on receipt	Satisfactory

CERTIFICATE OF ANALYSIS

TEST	ANALYTE	SUB	METHOD	LOQ	SPEC	RESULT	UNITS	ACCRED.
Gallery Plus-Suite A								
	Ammonia as N		EW175	0.005		<0.005	mg/l N	INAB
	Ammonium as NH4 (calc)		EW175	0.006		<0.006	mg/l NH4	INAB
	Nitrate as N		EW175	0.15		0.16	mg/l N	INAB
	Nitrite as N		EW175	0.005		<0.005	mg/l N	INAB
	Phosphate (Ortho/MRP) as P		EW175	0.005		0.007	mg/l P	INAB
	Chloride mg/L		EW175	1.0		15	mg/L	INAB
	Sulphate mg/L		EW175	1.0		2.3	mg/L	INAB
Metals-Dissolved								
	Hardness-Dissolved		EW188	3.0		190	mg/L CaCO3	YES
	Iron-Dissolved		EW188	20		26	ug/L	YES
	Manganese-Dissolved		EW188	1.0		<1.0	ug/L	YES
	Aluminium-Dissolved		EW188	5.0		8.2	ug/L	YES
	Arsenic-Dissolved		EW188	0.2		0.7	ug/L	YES
<i>Subcontracted</i>								
	Calcium-Dissolved		EW188	1.0		69	mg/L	YES
	Magnesium-Dissolved		EW188	0.3		3.5	mg/L	YES
	Potassium-Dissolved		EW188	0.2		3.6	mg/L	YES
	Sodium-Dissolved		EW188	0.5		6.9	mg/L	YES
Titralab								
	pH		EW153	0.0		8.5	pH Units	INAB
	Conductivity @20 DegC		EW153	25		375	uscm-1@20	INAB
	Alkalinity Total (R2 pH4.5)		EW153	10		192	mg/L CaCO3	INAB

Signed :

Maire Bradley

19/04/2021

Maire Bradley-Deputy Technical Manager

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Contact Name	David Broderick	Report Number	196737 - 1
Address	Hydro-Environmental Services 22, Lower Main Street, Dungarvan,	Sample Number	196737/005
Tel No	058 44122	Date of Receipt	25/03/2021
Customer PO	Per Batch	Date Started	25/03/2021
Project No.	QN010649	Received or Collected	Hand
Customer Ref	Ballyglass River	Date of Report	19/04/2021
		Sample Type	Ground Waters
		Condition on receipt	Satisfactory

CERTIFICATE OF ANALYSIS

TEST	ANALYTE	SUB	METHOD	LOQ	SPEC	RESULT	UNITS	ACCRED.
Gallery Plus-Suite A								
	Ammonia as N		EW175	0.005		0.006	mg/l N	INAB
	Ammonium as NH4 (calc)		EW175	0.006		0.007	mg/l NH4	INAB
	Nitrate as N		EW175	0.15		1.0	mg/l N	INAB
	Nitrite as N		EW175	0.005		<0.005	mg/l N	INAB
	Phosphate (Ortho/MRP) as P		EW175	0.005		0.007	mg/l P	INAB
	Chloride mg/L		EW175	1.0		17	mg/L	INAB
	Sulphate mg/L		EW175	1.0		4.5	mg/L	INAB
Metals-Dissolved								
	Hardness-Dissolved		EW188	3.0		310	mg/L CaCO3	YES
	Iron-Dissolved		EW188	20		39	ug/L	YES
	Manganese-Dissolved		EW188	1.0		1.2	ug/L	YES
	Aluminium-Dissolved		EW188	5.0		89	ug/L	YES
	Arsenic-Dissolved		EW188	0.2		0.6	ug/L	YES
	Calcium-Dissolved		EW188	1.0		120	mg/L	
	Magnesium-Dissolved		EW188	0.3		3.4	mg/L	YES
	<i>Subcontracted</i>							
	Potassium-Dissolved		EW188	0.2		2.4	mg/L	YES
	Sodium-Dissolved		EW188	0.5		8.2	mg/L	YES
Titralab								
	pH		EW153	0.0		8.1	pH Units	INAB
	Conductivity @20 DegC		EW153	25		589	uscm-1@20	INAB
	Alkalinity Total (R2 pH4.5)		EW153	10		325	mg/L CaCO3	INAB

Signed :

Maire Bradley

19/04/2021

Máire Bradley-Deputy Technical Manager

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Contact Name	David Broderick	Report Number	196737 - 1
Address	Hydro-Environmental Services 22, Lower Main Street, Dungarvan,	Sample Number	196737/006
		Date of Receipt	25/03/2021
		Date Started	25/03/2021
Tel No	058 44122	Received or Collected	Hand
Customer PO	Per Batch	Date of Report	19/04/2021
Project No.	QN010649	Sample Type	Ground Waters
Customer Ref	Kileglan River	Condition on receipt	Satisfactory

CERTIFICATE OF ANALYSIS

TEST	ANALYTE	SUB	METHOD	LOQ	SPEC	RESULT	UNITS	ACCRED.
Gallery Plus-Suite A								
	Ammonia as N		EW175	0.005		<0.005	mg/l N	INAB
	Ammonium as NH4 (calc)		EW175	0.006		<0.006	mg/l NH4	INAB
	Nitrate as N		EW175	0.15		2.1	mg/l N	INAB
	Nitrite as N		EW175	0.005		<0.005	mg/l N	INAB
	Phosphate (Ortho/MRP) as P		EW175	0.005		0.008	mg/l P	INAB
	Chloride mg/L		EW175	1.0		16	mg/L	INAB
	Sulphate mg/L		EW175	1.0		7.7	mg/L	INAB
Metals-Dissolved								
	Hardness-Dissolved		EW188	3.0		310	mg/L CaCO3	YES
	Iron-Dissolved		EW188	20		29	ug/L	YES
	Manganese-Dissolved		EW188	1.0		2.4	ug/L	YES
	Aluminium-Dissolved		EW188	5.0		2.0	ug/L	YES
	Arsenic-Dissolved		EW188	0.2		0.6	ug/L	YES
	Calcium-Dissolved		EW188	1.0		120	mg/L	
	Magnesium-Dissolved		EW188	0.3		11.2	mg/L	YES
	<i>Subcontracted</i>							
	Potassium-Dissolved		EW188	0.2		3.2	mg/L	YES
	Sodium-Dissolved		EW188	0.5		8.1	mg/L	YES
Titralab								
	pH		EW153	0.0		7.5	pH Units	INAB
	Conductivity @20 DegC		EW153	25		643	uscm-1@20	INAB
	Alkalinity Total (R2 pH4.5)		EW153	10		351	mg/L CaCO3	INAB

Signed :

19/04/2021

Máire Bradley-Deputy Technical Manager

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Contact Name	David Broderick	Report Number	196737 - 1
Address	Hydro-Environmental Services 22, Lower Main Street, Dungarvan,	Sample Number	196737/007
		Date of Receipt	25/03/2021
		Date Started	25/03/2021
Tel No	058 44122	Received or Collected	Hand
Customer PO	Per Batch	Date of Report	19/04/2021
Project No.	QN010649	Sample Type	Ground Waters
Customer Ref	MJ Daly Well	Condition on receipt	Satisfactory

CERTIFICATE OF ANALYSIS

TEST	ANALYTE	SUB	METHOD	LOQ	SPEC	RESULT	UNITS	ACCRED.
Gallery Plus-Suite A								
	Ammonia as N		EW175	0.005		0.008	mg/l N	INAB
	Ammonium as NH4 (calc)		EW175	0.006		0.010	mg/l NH4	INAB
	Nitrate as N		EW175	0.15		4.5	mg/l N	INAB
	Nitrite as N		EW175	0.005		<0.005	mg/l N	INAB
	Phosphate (Ortho/MRP) as P		EW175	0.005		0.009	mg/l P	INAB
	Chloride mg/L		EW175	1.0		13	mg/L	INAB
	Sulphate mg/L		EW175	1.0		6.6	mg/L	INAB
Metals-Dissolved								
	Hardness-Dissolved		EW188	3.0		310	mg/L CaCO3	YES
	Iron-Dissolved		EW188	20		<1.0	ug/L	YES
	Manganese-Dissolved		EW188	1.0		<1.0	ug/L	YES
	<i>Subcontracted</i>							
	Aluminium-Dissolved		EW188	5.0		2.4	ug/L	YES
	Arsenic-Dissolved		EW188	0.2		0.5	ug/L	YES
	Calcium-Dissolved		EW188	1.0		120	mg/L	
	Magnesium-Dissolved		EW188	0.3		3.3	mg/L	YES
	Potassium-Dissolved		EW188	0.2		5.8	mg/L	YES
	Sodium-Dissolved		EW188	0.5		8.0	mg/L	YES
Titralab								
	pH		EW153	0.0		7.6	pH Units	INAB
	Conductivity @20 DegC		EW153	25		598	uscm-1@20	INAB
	Alkalinity Total (R2 pH4.5)		EW153	10		315	mg/L CaCO3	INAB

Signed :

19/04/2021

Máire Bradley-Deputy Technical Manager

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Contact Name	David Broderick	Report Number	196737 - 1
Address	Hydro-Environmental Services 22, Lower Main Street, Dungarvan,	Sample Number	196737/008
		Date of Receipt	25/03/2021
		Date Started	25/03/2021
Tel No	058 44122	Received or Collected	Hand
Customer PO	Per Batch	Date of Report	19/04/2021
Project No.	QN010649	Sample Type	Ground Waters
Customer Ref	M Moore Well	Condition on receipt	Satisfactory

CERTIFICATE OF ANALYSIS

TEST	ANALYTE	SUB	METHOD	LOQ	SPEC	RESULT	UNITS	ACCRED.
Gallery Plus-Suite A								
	Ammonia as N		EW175	0.005		<0.005	mg/l N	INAB
	Ammonium as NH4 (calc)		EW175	0.006		<0.006	mg/l NH4	INAB
	Nitrate as N		EW175	0.15		2.1	mg/l N	INAB
	Nitrite as N		EW175	0.005		<0.005	mg/l N	INAB
	Phosphate (Ortho/MRP) as P		EW175	0.005		0.006	mg/l P	INAB
	Chloride mg/L		EW175	1.0		17	mg/L	INAB
	Sulphate mg/L		EW175	1.0		4.8	mg/L	INAB
Metals-Dissolved								
	Hardness-Dissolved		EW188	3.0		290	mg/L CaCO3	YES
	Iron-Dissolved		EW188	20		3.38	ug/L	YES
	Manganese-Dissolved		EW188	1.0		<1.0	ug/L	YES
	<i>Subcontracted</i>							
	Aluminium-Dissolved		EW188	5.0		<2.0	ug/L	YES
	Arsenic-Dissolved		EW188	0.2		0.4	ug/L	YES
	Calcium-Dissolved		EW188	1.0		110	mg/L	
	Magnesium-Dissolved		EW188	0.3		4.0	mg/L	YES
	Potassium-Dissolved		EW188	0.2		4.7	mg/L	YES
	Sodium-Dissolved		EW188	0.5		7.6	mg/L	YES
Titralab								
	pH		EW153	0.0		7.4	pH Units	INAB
	Conductivity @20 DegC		EW153	25		561	uscm-1@20	INAB
	Alkalinity Total (R2 pH4.5)		EW153	10		295	mg/L CaCO3	INAB

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Máire Bradley-Deputy Technical Manager

NOTES

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2.SPEC= Allowable limit or parametric value

3.LOQ=Limit of Quantification or lowest value that can be reported
4.ACCRED=Indicates matrix accreditation for the test,a blank field indicates not accredited
5.*** Indicates sub-contract test

6.Where the date of sampling has not been provided,sample stability times cannot be assessed. It is therefore possible that the results provided may be compromised