



ALS Laboratories (UK) Limited
Torrington Avenue
Coventry
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www.alsenvironmental.co.uk

**Mr Garden
Gwynant Ltd
Llyn Gwynant Campsite
Haford Lwyfog
Nant Gwynant
Caernafon LL55 4NW
Gwynedd**

14 June 2024

Test Report: COV/2668099/2024

Dear Mr Garden

Analysis of your sample(s) submitted on 05 June 2024 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Laboratories (UK) Limited and we look forward to receiving your next samples.

Yours Sincerely,

Signed:

Name:

D. Lewis

Title:

Technical Inorganic Manager



1314



EMS675527

OHS 542058



Report Summary

ANALYSED BY

**Mr Peter Garden
Gwynant Ltd
Llyn Gwynant Campsite
Haford Lwyfog
Nant Gwynant
Caernafon
Gwynedd
LL55 4NW**



Date of Issue: **14 June 2024**

Report Number: **COV/2668099/2024**

Issue **1**

This issue replaces
all previous issues

Job Description: Master Quote 2024

Number of Samples
included in this report **1**

Job Received: **05 June 2024**

Number of Test Results
included in this report **12**

Analysis Commenced: **06 June 2024**

Signed:

Name: **D. Lewis**

Date: **14 June 2024**

Title: **Technical Inorganic Manager**

ALS Laboratories (UK) Limited was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested and where relevant sampled.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This test report is not a statement of conformity to any specification or standard.

This communication has been sent to you by ALS Laboratories (UK) Limited. Registered in England and Wales. Registration No. 02391955. Registered Office: ALS Laboratories (UK) Limited, Torrington Avenue, Coventry, CV4 9GU.

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Page 1 of 5

Certificate of Analysis

ANALYSED BY



Report Number: **COV/2668099/2024**

Issue **1**

Laboratory Number: **24101798**

Sample **1** of **1**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Reed Bed**

Sample Matrix: **Not In Project**

Sample Date/Time: **04 June 2024 15:30**

Sample Received: **05 June 2024**

Analysis Complete: **14 June 2024**

Test Description	Result	Units	Completed	Accreditation	Method
E.coli presumptive	21	cfu/100ml	07/06/2024	N Cov	W10
Escherichia coli confirmed	19	cfu/100ml	14/06/2024	N Cov	W10
pH	6.9	pH units	06/06/2024	N Cov	WAS039
Alkalinity as CaCO3	108	mg/l	07/06/2024	N Cov	WAS025
Ammoniacal Nitrogen as N	5.27	mg/l	06/06/2024	N Cov	WAS036
Nitrate as N	48.6	mg/l	06/06/2024	N Cov	WAS036
Nitrogen, Total as N	59.2	mg/l	07/06/2024	N Cov	WAS022
Phosphate, Ortho as P	10.1	mg/l	06/06/2024	N Cov	WAS036
Total Suspended Solids	4.00	mg/l	07/06/2024	N Cov	WAS006
BOD + ATU (5 day)	3	mg/l	11/06/2024	N Cov	WAS001
Phosphorus, total as P (mg/l)	10.3	mg/l	10/06/2024	N Cov	WAS076
Phosphorus, filter as P (mg/l)	9.32	mg/l	10/06/2024	N Cov	WAS076

Analyst Comments for 24101798:

This sample has been analysed for Escherichia coli confirmed, E.coli presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised. {*/}Phosphate level too high for low level analysis.{*/} Total coliforms identified as Kluyvera species, Raoultella species, Enterobacter species, Klebsiella pneumoniae, Kluyvera cryocrescens

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: 

Name: **D. Lewis**

Date: **14 June 2024**

Title: **Technical Inorganic Manager**

ALS Laboratories (UK) Limited

Torrington Avenue, Coventry, CV4 9GU
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575



ANALYST COMMENTS FOR REPORT COV/2668099/2024

Issue 1

This issue replaces all previous issues

Date of Issue: 14 June 2024

Sample No	Analysis Comments
24101798	This sample has been analysed for Escherichia coli confirmed, E.coli presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised. {(*)}Phosphate level too high for low level analysis.{(*)} Total coliforms identified as Kluyvera species, Raoultella species, Enterobacter species, Klebsiella pneumoniae, Kluyvera cryocrescens

Signed: 

Name: **D. Lewis**

Date: **14 June 2024**

Title: **Technical Inorganic Manager**



DETERMINAND COMMENTS FOR REPORT COV/2668099/2024

ISSUE 1

Date of Issue: 14 June 2024

This issue replaces
all previous issues

Sample No	Description	Determinand	Comments
24101798	Reed Bed	Escherichia coli confirmed	Total coliforms identified as Kluyvera species, Raoultella species, Enterobacter species, Klebsiella pneumoniae, Kluyvera cryocrescens

Signed: *D. Lewis*

Name: **D. Lewis**

Date: **14 June 2024**

Title: **Technical Inorganic Manager**

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**Mr Garden
Gwynant Ltd
Llyn Gwynant Campsite
Haford Lwyfog
Nant Gwynant
Caernafon LL55 4NW
Gwynedd**

ALS Laboratories (UK) Limited

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WF5 9TG

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www.alsenvironmental.co.uk

07 June 2024

Test Report: WAK/2663423/2024

Dear Mr Garden

Analysis of your sample(s) submitted on 24 May 2024 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)1924 818100 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Laboratories (UK) Limited and we look forward to receiving your next samples.

Yours Sincerely,

Signed:

Name: A. Zunzunegui

Title: Organics Chemistry Manager



1314



EMS675527

OHS 542058



Report Summary

ANALYSED BY

**Mr Peter Garden
Gwynant Ltd
Llyn Gwynant Campsite
Haford Lwyfog
Nant Gwynant
Caernafon
Gwynedd
LL55 4NW**



Date of Issue: **07 June 2024**

Report Number: **WAK/2663423/2024**

Issue **1**

This issue replaces
all previous issues

Job Description: Master Quote 2024

Number of Samples
included in this report **5**

Job Received: **24 May 2024**

Number of Test Results
included in this report **76**

Analysis Commenced: **26 May 2024**

Signed:

A handwritten signature in black ink, appearing to read 'A. Zunzunegui'.

Name: **A. Zunzunegui**

Date: **07 June 2024**

Title: **Organics Chemistry Manager**

ALS Laboratories (UK) Limited was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested and where relevant sampled.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This test report is not a statement of conformity to any specification or standard.

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Page 1 of 13

Certificate of Analysis

ANALYSED BY



Report Number: **WAK/2663423/2024**

Laboratory Number: **24066442**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **1 drinkingwater**

Sample Matrix: **Not Specified**

Sample Date/Time: **23 May 2024** 17:45

Sample Received: **24 May 2024**

Analysis Complete: **07 June 2024**

Issue **1**

Sample **1** of **5**

Test Description	Result	Units	Completed	Accreditation	Method
Hardness, Total as CaCO ₃	63.8	mg/l	29/05/2024	N Wak	WPC12/49
Total Coliform presumpt	0	cfu/100ml	27/05/2024	N Cov	W10
Total Coliforms confirmed	0	cfu/100ml	27/05/2024	N Cov	W10
Aluminium, Total as Al	<14.5	ug/l	28/05/2024	N Wak	WPC12/49
Calcium, Total as Ca	20.5	mg/l	28/05/2024	N Wak	WPC12/49
Iron, Total as Fe	6.15	ug/l	27/05/2024	N Wak	WPC12/49
Magnesium, Total as Mg	3.06	mg/l	29/05/2024	N Wak	WPC12/49
Manganese, Total as Mn	4.64	ug/l	28/05/2024	N Wak	WPC12/49
Hydrogen ion (pH)	8.11	pH units	26/05/2024	N Wak	WPC8
Conductivity	189	uS/cm	26/05/2024	N Wak	WPC7
Turbidity	<0.15	NTU	26/05/2024	N Wak	WPC6
Colour	<3.0	mg/l Pt/Co	26/05/2024	N Wak	WPC13
Ammonium ammonia+ammonium ion	<0.008	mg/l	28/05/2024	N Wak	WPC64
Nitrite as NO ₂	<0.002	mg/l	28/05/2024	N Wak	WPC64
Nitrate as NO ₃	<2.13	mg/l	28/05/2024	N Wak	WPC64
Total Oxidised Nitrogen as NO ₃	<2.13	mg/l	28/05/2024	N Wak	WPC64

Analyst Comments for 24066442:

This sample has been analysed for Hydrogen ion (pH), Total Coliforms confirmed, Total Coliform presumpt outside recommended stability times. It is therefore possible that the results provided may be compromised.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

ALS Laboratories (UK) Limited

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Tel:+44 (0)1924 818100 Fax:+44 (0)1924 818101

Signed:

A handwritten signature in black ink, appearing to read 'A. Zunzunegui', enclosed within a rectangular box.

Name: **A. Zunzunegui**

Date: **07 June 2024**

Title: **Organics Chemistry Manager**

Certificate of Analysis

ANALYSED BY



Report Number: **WAK/2663423/2024**

Laboratory Number: **24066443**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **2 lake**

Sample Matrix: **Not Specified**

Sample Date/Time: **23 May 2024 17:50**

Sample Received: **24 May 2024**

Analysis Complete: **07 June 2024**

Issue **1**

Sample **2** of **5**

Test Description	Result	Units	Completed	Accreditation	Method
Hardness, Total as CaCO ₃	7.55	mg/l	28/05/2024	N Wak	WPC12/49
Total Coliform presumpt	>100	cfu/100ml	27/05/2024	N Cov	W10
Total Coliforms confirmed	>100	cfu/100ml	27/05/2024	N Cov	W10
Aluminium, Total as Al	38.0	ug/l	28/05/2024	N Wak	WPC12/49
Calcium, Total as Ca	2.16	mg/l	28/05/2024	N Wak	WPC12/49
Iron, Total as Fe	44.1	ug/l	27/05/2024	N Wak	WPC12/49
Magnesium, Total as Mg	0.53	mg/l	28/05/2024	N Wak	WPC12/49
Manganese, Total as Mn	16.8	ug/l	28/05/2024	N Wak	WPC12/49
Hydrogen ion (pH)	8.38	pH units	26/05/2024	N Wak	WPC8
Conductivity	34.4	uS/cm	26/05/2024	N Wak	WPC7
Turbidity	0.64	NTU	26/05/2024	N Wak	WPC6
Colour	8.2	mg/l Pt/Co	26/05/2024	N Wak	WPC13
Ammonium ammonia+ammonium ion	0.028	mg/l	28/05/2024	N Wak	WPC64
Nitrite as NO ₂	<0.002	mg/l	28/05/2024	N Wak	WPC64
Nitrate as NO ₃	<2.13	mg/l	28/05/2024	N Wak	WPC64
Total Oxidised Nitrogen as NO ₃	<2.13	mg/l	28/05/2024	N Wak	WPC64

Analyst Comments for 24066443:

This sample has been analysed for Hydrogen ion (pH), Total Coliforms confirmed, Total Coliform presumpt outside recommended stability times. It is therefore possible that the results provided may be compromised. Confirmation process not been carried out for coliforms due to nature of the sample.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

ALS Laboratories (UK) Limited

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Signed:

A handwritten signature in black ink, appearing to read 'A. Zunzunegui', enclosed within a thin black rectangular border.

Name: **A. Zunzunegui**

Date: **07 June 2024**

Title: **Organics Chemistry Manager**

Certificate of Analysis

ANALYSED BY



Report Number: **WAK/2663423/2024**

Laboratory Number: **24066444**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **3 bridge**

Sample Matrix: **Not Specified**

Sample Date/Time: **23 May 2024** 17:55

Sample Received: **24 May 2024**

Analysis Complete: **07 June 2024**

Issue **1**

Sample **3** of **5**

Test Description	Result	Units	Completed	Accreditation	Method
Hardness, Total as CaCO ₃	5.50	mg/l	28/05/2024	N Wak	WPC12/49
Total Coliform presumpt	>100	cfu/100ml	27/05/2024	N Cov	W10
Total Coliforms confirmed	>100	cfu/100ml	27/05/2024	N Cov	W10
Aluminium, Total as Al	69.2	ug/l	28/05/2024	N Wak	WPC12/49
Calcium, Total as Ca	1.50	mg/l	28/05/2024	N Wak	WPC12/49
Iron, Total as Fe	58.0	ug/l	27/05/2024	N Wak	WPC12/49
Magnesium, Total as Mg	0.43	mg/l	28/05/2024	N Wak	WPC12/49
Manganese, Total as Mn	6.55	ug/l	28/05/2024	N Wak	WPC12/49
Hydrogen ion (pH)	8.11	pH units	26/05/2024	N Wak	WPC8
Conductivity	23.1	uS/cm	26/05/2024	N Wak	WPC7
Turbidity	0.45	NTU	26/05/2024	N Wak	WPC6
Colour	16.4	mg/l Pt/Co	26/05/2024	N Wak	WPC13
Ammonium ammonia+ammonium ion	0.018	mg/l	28/05/2024	N Wak	WPC64
Nitrite as NO ₂	<0.002	mg/l	28/05/2024	N Wak	WPC64
Nitrate as NO ₃	<2.13	mg/l	28/05/2024	N Wak	WPC64
Total Oxidised Nitrogen as NO ₃	<2.13	mg/l	28/05/2024	N Wak	WPC64

Analyst Comments for 24066444:

This sample has been analysed for Hydrogen ion (pH), Total Coliforms confirmed, Total Coliform presumpt outside recommended stability times. It is therefore possible that the results provided may be compromised. Confirmation process not been carried out for coliforms due to nature of the sample.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

ALS Laboratories (UK) Limited

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Signed:

A handwritten signature in black ink, appearing to read 'A. Zunzunegui', enclosed within a thin black rectangular border.

Name: **A. Zunzunegui**

Date: **07 June 2024**

Title: **Organics Chemistry Manager**

Certificate of Analysis

ANALYSED BY



Report Number: **WAK/2663423/2024**

Laboratory Number: **24066445**

Issue **1**

Sample **4** of **5**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **4 rivermouth**

Sample Matrix: **Not Specified**

Sample Date/Time: **23 May 2024** **18:10**

Sample Received: **24 May 2024**

Analysis Complete: **07 June 2024**

Test Description	Result	Units	Completed	Accreditation	Method
Hardness, Total as CaCO ₃	5.67	mg/l	28/05/2024	N Wak	WPC12/49
Total Coliform presumpt	>100	cfu/100ml	27/05/2024	N Cov	W10
Total Coliforms confirmed	>100	cfu/100ml	27/05/2024	N Cov	W10
Aluminium, Total as Al	64.6	ug/l	28/05/2024	N Wak	WPC12/49
Calcium, Total as Ca	1.55	mg/l	28/05/2024	N Wak	WPC12/49
Iron, Total as Fe	54.1	ug/l	27/05/2024	N Wak	WPC12/49
Magnesium, Total as Mg	0.44	mg/l	28/05/2024	N Wak	WPC12/49
Manganese, Total as Mn	5.79	ug/l	28/05/2024	N Wak	WPC12/49
Hydrogen ion (pH)	7.79	pH units	26/05/2024	N Wak	WPC8
Conductivity	103	uS/cm	26/05/2024	N Wak	WPC7
Turbidity	0.45	NTU	26/05/2024	N Wak	WPC6
Colour	16.1	mg/l Pt/Co	26/05/2024	N Wak	WPC13
Ammonium ammonia+ammonium ion	0.037	mg/l	28/05/2024	N Wak	WPC64
Nitrite as NO ₂	<0.002	mg/l	28/05/2024	N Wak	WPC64
Nitrate as NO ₃	<2.13	mg/l	28/05/2024	N Wak	WPC64
Total Oxidised Nitrogen as NO ₃	<2.13	mg/l	28/05/2024	N Wak	WPC64

Analyst Comments for 24066445:

This sample has been analysed for Hydrogen ion (pH), Total Coliforms confirmed, Total Coliform presumpt outside recommended stability times. It is therefore possible that the results provided may be compromised. Confirmation process not been carried out for coliforms due to nature of the sample.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

ALS Laboratories (UK) Limited

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Tel:+44 (0)1924 818100 Fax:+44 (0)1924 818101

Signed:

A handwritten signature in black ink, appearing to read "A. Zunzunegui", enclosed within a thin black rectangular border.

Name: **A. Zunzunegui**

Date: **07 June 2024**

Title: **Organics Chemistry Manager**

Certificate of Analysis

ANALYSED BY



Report Number: **WAK/2663423/2024**

Issue **1**

Laboratory Number: **24066446**

Sample **5** of **5**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **5 treated effluent**

Sample Matrix: **Not Specified**

Sample Date/Time: **23 May 2024** **18:25**

Sample Received: **24 May 2024**

Analysis Complete: **07 June 2024**

Test Description	Result	Units	Completed	Accreditation	Method
Phosphate, Ortho as P LL	7.98	mg/l	28/05/2024	N Cov	WAS067
E.coli presumptive	>100	cfu/100ml	27/05/2024	N Cov	W10
Escherichia coli confirmed	>100	cfu/100ml	27/05/2024	N Cov	W10
pH	7.3	pH units	29/05/2024	N Cov	WAS039
Alkalinity as CaCO3	109	mg/l	29/05/2024	N Cov	WAS025
Ammoniacal Nitrogen as N	1.17	mg/l	28/05/2024	N Cov	WAS036
Nitrate as N	22.7	mg/l	28/05/2024	N Cov	WAS036
Nitrogen, Total as N	25.3	mg/l	30/05/2024	N Cov	WAS022
Total Suspended Solids	6.00	mg/l	28/05/2024	N Cov	WAS006
BOD + ATU (5 day)	2	mg/l	02/06/2024	N Cov	WAS001
Phosphorus, total as P (mg/l)	8.58	mg/l	31/05/2024	N Cov	WAS076
Phosphorus, filter as P (mg/l)	8.92	mg/l	30/05/2024	N Cov	WAS076

Analyst Comments for 24066446:

This sample has been analysed for pH, BOD + ATU (5 day), Nitrate as N, Escherichia coli confirmed, E.coli presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised. Confirmation process not been carried out for coliforms and E.coli due to nature of the sample.

This issue replaces all previous issues

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Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG).

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I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **A. Zunzunegui**

Date: **07 June 2024**

Title: **Organics Chemistry Manager**

ALS Laboratories (UK) Limited

Unit 11, Silkwood Park, Janes Hill, Off Albert Drive, Wakefield, WF5 9TG

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**ANALYST COMMENTS FOR REPORT WAK/2663423/2024****Issue 1**

This issue replaces all previous issues

Date of Issue: 07 June 2024

Sample No	Analysis Comments
24066442	This sample has been analysed for Hydrogen ion (pH), Total Coliforms confirmed, Total Coliform presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised.
24066443	This sample has been analysed for Hydrogen ion (pH), Total Coliforms confirmed, Total Coliform presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised. Confirmation process not been carried out for coliforms due to nature of the sample.
24066444	This sample has been analysed for Hydrogen ion (pH), Total Coliforms confirmed, Total Coliform presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised. Confirmation process not been carried out for coliforms due to nature of the sample.
24066445	This sample has been analysed for Hydrogen ion (pH), Total Coliforms confirmed, Total Coliform presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised. Confirmation process not been carried out for coliforms due to nature of the sample.
24066446	This sample has been analysed for pH, BOD + ATU (5 day), Nitrate as N, Escherichia coli confirmed, E.coli presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised. Confirmation process not been carried out for coliforms and E.coli due to nature of the sample.

Signed:

Name: **A. Zunzunegui**Date: **07 June 2024**Title: **Organics Chemistry Manager**



DETERMINAND COMMENTS FOR REPORT WAK/2663423/2024

ISSUE 1

Date of Issue: 07 June 2024

This issue replaces
all previous issues

Sample No	Description	Determinand	Comments
24066443	2 lake	Total Coliform presum	Confirmation process not been carried out for coliforms due to nature of the sample.
24066444	3 bridge	Total Coliform presum	Confirmation process not been carried out for coliforms due to nature of the sample.
24066445	4 rivermouth	Total Coliform presum	Confirmation process not been carried out for coliforms due to nature of the sample.
24066446	5 treated effluent	E.coli presumptive	Confirmation process not been carried out for coliforms and E.coli due to nature of the sample.

Signed: 	Name: A. Zunzunegui	Date: 07 June 2024
	Title: Organics Chemistry Manager	

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**Mr Garden
Gwynant Ltd
Llyn Gwynant Campsite
Haford Lwyfog
Nant Gwynant
Caernafon LL55 4NW
Gwynedd**

12 July 2023

Test Report: COV/2500706/2023

Dear Mr Garden

Analysis of your sample(s) submitted on 28 June 2023 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Laboratories (UK) Limited and we look forward to receiving your next samples.

Yours Sincerely,

Signed: *Subbattin Tharmaseelan.*

Name: S. Tharmaseelan

Title: Legionella Team Leader



1314



EMS675527

OHS 542058



Report Summary

ANALYSED BY

**Mr Peter Garden
Gwynant Ltd
Llyn Gwynant Campsite
Haford Lwyfog
Nant Gwynant
Caernafon
Gwynedd
LL55 4NW**



Date of Issue: **12 July 2023**

Report Number: **COV/2500706/2023**

Issue **1**

This issue replaces
all previous issues

Job Description: Waste Water

Number of Samples
included in this report **10**

Job Received: **28 June 2023**

Number of Test Results
included in this report **120**

Analysis Commenced: **29 June 2023**

Signed: *S. Tharmaseelan*

Name: **S. Tharmaseelan**

Date: **12 July 2023**

Title: **Legionella Team Leader**

ALS Laboratories (UK) Limited was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested and where relevant sampled.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This test report is not a statement of conformity to any specification or standard.

This communication has been sent to you by ALS Laboratories (UK) Limited. Registered in England and Wales. Registration No. 02391955. Registered Office: ALS Laboratories (UK) Limited, Torrington Avenue, Coventry, CV4 9GU.

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Page 1 of 20

Certificate of Analysis

ANALYSED BY



Report Number: **COV/2500706/2023**

Laboratory Number: **22940494**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Bore water**

Sample Matrix: **Drinking Water**

Sample Date/Time: **28 June 2023 08:30**

Sample Received: **28 June 2023**

Analysis Complete: **12 July 2023**

Issue **1**

Sample **1** of **10**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Hardness, Total as CaCO ₃	62.4	mg/l	30/06/2023	Y Wak	WPC12/49
Sulphur, Total as SO ₄	7.27	mg/l	30/06/2023	Y Wak	WPC12/49
TVC 37C 2 day	0	cfu/ml	04/07/2023	Y Cov	W1
TVC 22C 3 day	20	cfu/ml	04/07/2023	Y Cov	W1
Total Coliform presump	0	cfu/100ml	30/06/2023	Y Cov	W10
Total Coliforms confirmed	0	cfu/100ml	30/06/2023	Y Cov	W10
E.coli presumptive	0	cfu/100ml	30/06/2023	Y Cov	W10
Escherichia coli confirmed	0	cfu/100ml	30/06/2023	Y Cov	W10
Aluminium, Total as Al	<14.5	ug/l	30/06/2023	Y Wak	WPC12/49
Calcium, Total as Ca	20.4	mg/l	30/06/2023	Y Wak	WPC12/49
Iron, Total as Fe	10.5	ug/l	30/06/2023	Y Wak	WPC12/49
Magnesium, Total as Mg	2.75	mg/l	30/06/2023	Y Wak	WPC12/49
Antimony, Total as Sb	<0.07	ug/l	29/06/2023	Y Wak	WPC15
Arsenic, Total as As	5.10	ug/l	29/06/2023	Y Wak	WPC15
Manganese, Total as Mn	31.7	ug/l	30/06/2023	Y Wak	WPC12/49
Cadmium, Total as Cd	<0.03	ug/l	29/06/2023	Y Wak	WPC15
Chromium, Total as Cr	<0.18	ug/l	29/06/2023	Y Wak	WPC15
Copper, Total as Cu	<0.35	ug/l	29/06/2023	Y Wak	WPC15
Lead, Total as Pb	<0.04	ug/l	29/06/2023	Y Wak	WPC15
Nickel, Total as Ni	<0.18	ug/l	29/06/2023	Y Wak	WPC15
Selenium, Total as Se	<0.32	ug/l	29/06/2023	Y Wak	WPC15
Hydrogen ion (pH)	8.07	pH units	29/06/2023	Y Wak	WPC8
Conductivity	189	uS/cm	29/06/2023	Y Wak	WPC7

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Certificate of Analysis

ANALYSED BY



Report Number: **COV/2500706/2023**

Laboratory Number: **22940494**

Issue **1**

Sample **1** of **10**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Bore water**

Sample Matrix: **Drinking Water**

Sample Date/Time: **28 June 2023 08:30**

Sample Received: **28 June 2023**

Analysis Complete: **12 July 2023**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Turbidity	0.15	NTU	29/06/2023	Y Wak	WPC6
Colour	<3.0	mg/l Pt/Co	29/06/2023	Y Wak	WPC13
Ammonium ammonia+ammonium ion	0.019	mg/l	29/06/2023	Y Wak	WPC64
Nitrite as NO2	<0.003	mg/l	29/06/2023	Y Wak	WPC64
Nitrate as NO3	<2.11	mg/l	29/06/2023	Y Wak	WPC64
Total Oxidised Nitrogen as NO3	<2.13	mg/l	29/06/2023	Y Wak	WPC64
Fluoride, Total as F	70.0	ug/l	29/06/2023	Y Wak	WPC20
Mercury, Total as Hg	<0.04	ug/l	30/06/2023	Y Wak	WPC21
Qualitative Taste	0	Text	01/07/2023	N Cov	W56
Qualitative Odour	0	Text	01/07/2023	N Cov	W56

Analyst Comments for 22940494:

No Analyst Comment

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *Subathin Tharmaseelan*

Name: **S. Tharmaseelan**

Date: **12 July 2023**

Title: **Legionella Team Leader**

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Page 3 of 20

Certificate of Analysis

ANALYSED BY



Report Number: **COV/2500706/2023**

Laboratory Number: **22940495**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Treated water**

Sample Matrix: **Drinking Water**

Sample Date/Time: **28 June 2023 08:50**

Sample Received: **28 June 2023**

Analysis Complete: **12 July 2023**

Issue **1**

Sample **2** of **10**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Hardness, Total as CaCO ₃	28.0	mg/l	30/06/2023	Y Wak	WPC12/49
Total Coliform presumpt	19	cfu/100ml	30/06/2023	Y Cov	W10
Total Coliforms confirmed	17	cfu/100ml	02/07/2023	Y Cov	W10
Aluminium, Total as Al	<14.5	ug/l	30/06/2023	Y Wak	WPC12/49
Calcium, Total as Ca	8.84	mg/l	30/06/2023	Y Wak	WPC12/49
Iron, Total as Fe	11.2	ug/l	30/06/2023	Y Wak	WPC12/49
Magnesium, Total as Mg	1.44	mg/l	30/06/2023	Y Wak	WPC12/49
Manganese, Total as Mn	1.64	ug/l	30/06/2023	Y Wak	WPC12/49
Hydrogen ion (pH)	7.99	pH units	29/06/2023	Y Wak	WPC8
Conductivity	93.9	uS/cm	29/06/2023	Y Wak	WPC7
Turbidity	0.22	NTU	29/06/2023	Y Wak	WPC6
Colour	3.6	mg/l Pt/Co	29/06/2023	Y Wak	WPC13
Ammonium ammonia+ammonium ion	<0.010	mg/l	29/06/2023	Y Wak	WPC64
Nitrite as NO ₂	<0.003	mg/l	29/06/2023	Y Wak	WPC64
Nitrate as NO ₃	<2.11	mg/l	29/06/2023	Y Wak	WPC64
Total Oxidised Nitrogen as NO ₃	<2.13	mg/l	29/06/2023	Y Wak	WPC64

Analyst Comments for 22940495:

Total coliforms identified as Escherichia coli, Buttiauxella species, Serratia plymuthica, Lelliottia amigena, Serratia fonticola and Buttiauxella gavinioe.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

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Signed: *Subbathin Tharmaseelan.*

Name: **S. Tharmaseelan**

Date: **12 July 2023**

Title: **Legionella Team Leader**

Certificate of Analysis

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Report Number: **COV/2500706/2023**

Laboratory Number: **22940496**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Lake**

Sample Matrix: **Recreational Water**

Sample Date/Time: **28 June 2023 08:40**

Sample Received: **28 June 2023**

Analysis Complete: **12 July 2023**

Issue **1**

Sample **3** of **10**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Total Coliform presumpt	>100	cfu/100ml	30/06/2023	Y Cov	W10
Total Coliforms confirmed	>100	cfu/100ml	30/06/2023	Y Cov	W10
pH	6.9	pH units	03/07/2023	Y Cov	WAS039
Conductivity- Electrical 20C	35.4	uS/cm	01/07/2023	Y Cov	WAS039
Colour	9	mg/l Pt/Co	03/07/2023	Y Cov	WAS065
Turbidity	<1.40	NTU	06/07/2023	Y Cov	WAS066
Ammoniacal Nitrogen as N	<0.41	mg/l	06/07/2023	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	06/07/2023	Y Cov	WAS036
Nitrate as N	<0.7	mg/l	06/07/2023	Y Cov	WAS036
Aluminium, total as Al (mg/l)	0.026	mg/l	30/06/2023	Y Cov	WAS076
Iron, total as Fe (mg/l)	0.047	mg/l	30/06/2023	Y Cov	WAS076
Manganese, total as Mn (mg/l)	0.030	mg/l	30/06/2023	Y Cov	WAS076
Total Hardness as CaCO3	9.37	mg/l	30/06/2023	Y Cov	WAS076

Analyst Comments for 22940496:

This sample has been analysed for pH, Turbidity, Ammoniacal Nitrogen as N, Nitrite as N, Nitrate as N outside recommended stability times. It is therefore possible that the results provided may be compromised. High levels of Coliform bacteria are present on the Coliform and E. coli test which may have suppressed the growth of E. coli. The results given may therefore be compromised. Confirmation process not been carried out for coliforms and E. coli due to n {/*}It was noted that the particulates within the sample settled on standing. The reported turbidity result was the maximum observed.{*/}

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

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Signed: *Subbathin Tharmaseelan.*

Name: **S. Tharmaseelan**

Date: **12 July 2023**

Title: **Legionella Team Leader**

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Report Number: **COV/2500706/2023**

Laboratory Number: **22940497**

Issue **1**

Sample **4** of **10**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Upstream of Bridge**

Sample Matrix: **Surface Water**

Sample Date/Time: **28 June 2023 09:30**

Sample Received: **28 June 2023**

Analysis Complete: **12 July 2023**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Total Coliform presumpt	>100	cfu/100ml	30/06/2023	Y Cov	W10
Total Coliforms confirmed	>100	cfu/100ml	30/06/2023	Y Cov	W10
pH	6.9	pH units	03/07/2023	Y Cov	WAS039
Conductivity- Electrical 20C	39.5	uS/cm	01/07/2023	Y Cov	WAS039
Colour	11	mg/l Pt/Co	03/07/2023	Y Cov	WAS065
Turbidity	<1.40	NTU	06/07/2023	Y Cov	WAS066
Ammoniacal Nitrogen as N	<0.41	mg/l	06/07/2023	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	06/07/2023	Y Cov	WAS036
Nitrate as N	<0.7	mg/l	06/07/2023	Y Cov	WAS036
Aluminium, total as Al (mg/l)	0.029	mg/l	30/06/2023	Y Cov	WAS076
Iron, total as Fe (mg/l)	0.039	mg/l	30/06/2023	Y Cov	WAS076
Manganese, total as Mn (mg/l)	0.0056	mg/l	30/06/2023	Y Cov	WAS076
Total Hardness as CaCO3	11.4	mg/l	30/06/2023	Y Cov	WAS076

Analyst Comments for 22940497:

This sample has been analysed for pH, Turbidity, Ammoniacal Nitrogen as N, Nitrite as N, Nitrate as N outside recommended stability times. It is therefore possible that the results provided may be compromised. High levels of Coliform bacteria are present on the Coliform and E. coli test which may have suppressed the growth of E. coli. The results given may therefore be compromised. Confirmation process not been carried out for coliforms and E.coli due to n

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

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Signed: *Subbathin Tharmaseelan.*

Name: **S. Tharmaseelan**

Date: **12 July 2023**

Title: **Legionella Team Leader**

Certificate of Analysis

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Report Number: **COV/2500706/2023**

Laboratory Number: **22940498**

Issue **1**

Sample **5** of **10**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Cwm Dyli Hydro**

Sample Matrix: **Surface Water**

Sample Date/Time: **28 June 2023 10:00**

Sample Received: **28 June 2023**

Analysis Complete: **12 July 2023**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Total Coliform presumpt	57	cfu/100ml	30/06/2023	Y Cov	W10
Total Coliforms confirmed	57	cfu/100ml	01/07/2023	Y Cov	W10
pH	6.7	pH units	03/07/2023	Y Cov	WAS039
Conductivity- Electrical 20C	35.0	uS/cm	01/07/2023	Y Cov	WAS039
Colour	13	mg/l Pt/Co	03/07/2023	Y Cov	WAS065
Turbidity	<1.40	NTU	06/07/2023	Y Cov	WAS066
Ammoniacal Nitrogen as N	<0.41	mg/l	06/07/2023	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	06/07/2023	Y Cov	WAS036
Nitrate as N	<0.7	mg/l	06/07/2023	Y Cov	WAS036
Aluminium, total as Al (mg/l)	0.045	mg/l	30/06/2023	Y Cov	WAS076
Iron, total as Fe (mg/l)	0.040	mg/l	30/06/2023	Y Cov	WAS076
Manganese, total as Mn (mg/l)	0.0037	mg/l	30/06/2023	Y Cov	WAS076
Total Hardness as CaCO3	6.72	mg/l	30/06/2023	Y Cov	WAS076

Analyst Comments for 22940498:

This sample has been analysed for pH, Turbidity, Ammoniacal Nitrogen as N, Nitrite as N, Nitrate as N outside recommended stability times. It is therefore possible that the results provided may be compromised. Total coliforms identified as Escherichia coli, Citrobacter braakii, Klebsiella oxytoca. {*/}It was noted that the particulates within the sample settled on standing. The reported turbidity result was the maximum observed.{*/}

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

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Signed: *Subbathin Tharmaseelan.*

Name: **S. Tharmaseelan**

Date: **12 July 2023**

Title: **Legionella Team Leader**

Certificate of Analysis

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Report Number: **COV/2500706/2023**

Laboratory Number: **22940499**

Issue **1**

Sample **6** of **10**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Mound Tank**

Sample Matrix: **Surface Water**

Sample Date/Time: **28 June 2023** **09:40**

Sample Received: **28 June 2023**

Analysis Complete: **12 July 2023**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Total Coliform presumpt	50	cfu/100ml	30/06/2023	Y Cov	W10
Total Coliforms confirmed	50	cfu/100ml	02/07/2023	Y Cov	W10
pH	6.8	pH units	03/07/2023	Y Cov	WAS039
Conductivity- Electrical 20C	34.1	uS/cm	01/07/2023	Y Cov	WAS039
Colour	7	mg/l Pt/Co	03/07/2023	Y Cov	WAS065
Turbidity	<1.40	NTU	06/07/2023	Y Cov	WAS066
Ammoniacal Nitrogen as N	<0.41	mg/l	06/07/2023	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	06/07/2023	Y Cov	WAS036
Nitrate as N	<0.7	mg/l	06/07/2023	Y Cov	WAS036
Aluminium, total as Al (mg/l)	0.022	mg/l	30/06/2023	Y Cov	WAS076
Iron, total as Fe (mg/l)	0.050	mg/l	30/06/2023	Y Cov	WAS076
Manganese, total as Mn (mg/l)	0.017	mg/l	30/06/2023	Y Cov	WAS076
Total Hardness as CaCO3	8.92	mg/l	30/06/2023	Y Cov	WAS076

Analyst Comments for 22940499:

This sample has been analysed for pH, Turbidity, Ammoniacal Nitrogen as N, Nitrite as N, Nitrate as N outside recommended stability times. It is therefore possible that the results provided may be compromised. Total coliforms identified as Escherichia coli, Kluveria species, Raoultella species. {*/}It was noted that the particulates within the sample settled on standing. The reported turbidity result was the maximum observed.{*/}

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

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Signed: *Subbathin Tharmaseelan.*

Name: **S. Tharmaseelan**

Date: **12 July 2023**

Title: **Legionella Team Leader**

Certificate of Analysis

ANALYSED BY



Report Number: **COV/2500706/2023**

Laboratory Number: **22940500**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Primary Tank**

Sample Matrix: **Untreated Sewage**

Sample Date/Time: **28 June 2023 09:55**

Sample Received: **28 June 2023**

Analysis Complete: **12 July 2023**

Issue **1**

Sample **7** of **10**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Ammoniacal Nitrogen as N	72.3	mg/l	06/07/2023	Y Cov	WAS036
Nitrogen, Total as N	83.2	mg/l	03/07/2023	Y Cov	WAS022
Total Suspended Solids	98.0	mg/l	11/07/2023	Y Cov	WAS006
BOD + ATU (5 day)	261	mg/l	04/07/2023	Y Cov	WAS001
Phosphates, Total as P	29	mg/l	04/07/2023	Y Cov	WAS076

Analyst Comments for 22940500:

This sample has been analysed for Total Suspended Solids, Ammoniacal Nitrogen as N outside recommended stability times. It is therefore possible that the results provided may be compromised. {/*} Sample filtered through 0.45um filter prior to Nitrogen analysis.{/*}

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *Subathin Tharmaseelan*

Name: **S. Tharmaseelan**

Date: **12 July 2023**

Title: **Legionella Team Leader**

ALS Laboratories (UK) Limited

Torrington Avenue, Coventry, CV4 9GU
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Certificate of Analysis

ANALYSED BY



Report Number: **COV/2500706/2023**

Laboratory Number: **22940501**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Flout Tank**

Sample Matrix: **Treated Sewage**

Sample Date/Time: **28 June 2023 09:45**

Sample Received: **28 June 2023**

Analysis Complete: **12 July 2023**

Issue **1**

Sample **8** of **10**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Ammoniacal Nitrogen as N	4.31	mg/l	06/07/2023	Y Cov	WAS036
Nitrogen, Total as N	19.6	mg/l	04/07/2023	Y Cov	WAS022
Total Suspended Solids	21.0	mg/l	05/07/2023	Y Cov	WAS006
BOD + ATU (5 day)	11	mg/l	04/07/2023	Y Cov	WAS001
Phosphates, Total as P	7.9	mg/l	04/07/2023	Y Cov	WAS076
E.Coli Dilution	2000	cfu/100ml	30/06/2023	N Cov	W10

Analyst Comments for 22940501:

This sample has been analysed for Ammoniacal Nitrogen as N outside recommended stability times. It is therefore possible that the results provided may be compromised.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *Subbathin Tharmaseelan*

Name: **S. Tharmaseelan**

Date: **12 July 2023**

Title: **Legionella Team Leader**

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Certificate of Analysis

ANALYSED BY



Report Number: **COV/2500706/2023**

Laboratory Number: **22940502**

Issue **1**

Sample **9** of **10**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **UV sampling point**

Sample Matrix: **Treated Sewage**

Sample Date/Time: **28 June 2023 09:40**

Sample Received: **28 June 2023**

Analysis Complete: **12 July 2023**

Test Description	Result	Units	Analysis Date	Accreditation	Method
E.coli presumptive	28	cfu/100ml	30/06/2023	N Cov	W10
Escherichia coli confirmed	28	cfu/100ml	01/07/2023	N Cov	W10
Ammoniacal Nitrogen as N	4.61	mg/l	06/07/2023	Y Cov	WAS036
Nitrogen, Total as N	17.8	mg/l	03/07/2023	Y Cov	WAS022
Total Suspended Solids	24.0	mg/l	11/07/2023	Y Cov	WAS006
BOD + ATU (5 day)	11	mg/l	04/07/2023	Y Cov	WAS001
Phosphates, Total as P	7.1	mg/l	04/07/2023	Y Cov	WAS076

Analyst Comments for 22940502:

This sample has been analysed for Total Suspended Solids, Ammoniacal Nitrogen as N outside recommended stability times. It is therefore possible that the results provided may be compromised. {/*} Sample filtered through 0.45um filter prior to Nitrogen analysis.{/*}

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *Subathin Tharmaseelan*

Name: **S. Tharmaseelan**

Date: **12 July 2023**

Title: **Legionella Team Leader**

ALS Laboratories (UK) Limited

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Page 16 of 20

Certificate of Analysis

ANALYSED BY



Report Number: **COV/2500706/2023**

Laboratory Number: **22940503**

Issue **1**

Sample **10** of **10**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **SBR**

Sample Matrix: **Untreated Sewage**

Sample Date/Time: **28 June 2023** **09:35**

Sample Received: **28 June 2023**

Analysis Complete: **12 July 2023**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Total Suspended Solids	3890	mg/l	11/07/2023	Y Cov	WAS006

Analyst Comments for 22940503:

This sample has been analysed for Total Suspended Solids outside recommended stability times. It is therefore possible that the results provided may be compromised.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *Subathin Tharmaseelan*

Name: **S. Tharmaseelan**

Date: **12 July 2023**

Title: **Legionella Team Leader**

**ANALYST COMMENTS FOR REPORT COV/2500706/2023****Issue 1**

This issue replaces all previous issues

Date of Issue: 12 July 2023

Sample No	Analysis Comments
22940494	
22940495	Total coliforms identified as Escherichia coli, Buttiauxella species, Serratia plymuthica, Lelliottia amigena, Serratia fonticola and Buttiauxella gavinioe.
22940496	This sample has been analysed for pH, Turbidity, Ammoniacal Nitrogen as N, Nitrite as N, Nitrate as N outside recommended stability times. It is therefore possible that the results provided may be compromised. High levels of Coliform bacteria are present on the Coliform and E.coli test which may have suppressed the growth of E.coli. The results given may therefore be compromised. Confirmation process not been carried out for coliforms and E.coli due to n {*/}It was noted that the particulates within the sample settled on standing. The reported turbidity result was the maximum observed.{*/}
22940497	This sample has been analysed for pH, Turbidity, Ammoniacal Nitrogen as N, Nitrite as N, Nitrate as N outside recommended stability times. It is therefore possible that the results provided may be compromised. High levels of Coliform bacteria are present on the Coliform and E.coli test which may have suppressed the growth of E.coli. The results given may therefore be compromised. Confirmation process not been carried out for coliforms and E.coli due to n
22940498	This sample has been analysed for pH, Turbidity, Ammoniacal Nitrogen as N, Nitrite as N, Nitrate as N outside recommended stability times. It is therefore possible that the results provided may be compromised. Total coliforms identified as Escherichia coli, Citrobacter braakii, Klebsiella oxytoca. {*/}It was noted that the particulates within the sample settled on standing. The reported turbidity result was the maximum observed.{*/}
22940499	This sample has been analysed for pH, Turbidity, Ammoniacal Nitrogen as N, Nitrite as N, Nitrate as N outside recommended stability times. It is therefore possible that the results provided may be compromised. Total coliforms identified as Escherichia coli, Kluyvera species, Raoultella species. {*/}It was noted that the particulates within the sample settled on standing. The reported turbidity result was the maximum observed.{*/}
22940500	This sample has been analysed for Total Suspended Solids, Ammoniacal Nitrogen as N outside recommended stability times. It is therefore possible that the results provided may be compromised. {*/}Sample filtered through 0.45um filter prior to Nitrogen analysis.{*/}
22940501	This sample has been analysed for Ammoniacal Nitrogen as N outside recommended stability times. It is therefore possible that the results provided may be compromised.
22940502	This sample has been analysed for Total Suspended Solids, Ammoniacal Nitrogen as N outside recommended stability times. It is therefore possible that the results provided may be compromised. {*/}Sample filtered through 0.45um filter prior to Nitrogen analysis.{*/}
22940503	This sample has been analysed for Total Suspended Solids outside recommended stability times. It is therefore possible that the results provided may be compromised.

Signed: *Subbathin Tharmaseelan.*Name: **S. Tharmaseelan**Date: **12 July 2023**Title: **Legionella Team Leader**



DETERMINAND COMMENTS FOR REPORT COV/2500706/2023

ISSUE 1

Date of Issue: 12 July 2023

This issue replaces
all previous issues

Sample No	Description	Determinand	Comments
22940495	Treated water	Total Coliforms confirmed	Total coliforms identified as Escherichia coli, Buttiauxella species, Serratia plymuthica, Lelliottia amigena, Serratia fonticola and Buttiauxella gavinioe.
22940496	Lake	Total Coliform presumpt	High levels of Coliform bacteria are present on the Coliform and E. coli test which may have suppressed the growth of E. coli. The results given may therefore be compromised. Confirmation process not been carried out for coliforms and E.coli due to n
22940497	Upstream of Bridge	Total Coliform presumpt	High levels of Coliform bacteria are present on the Coliform and E. coli test which may have suppressed the growth of E. coli. The results given may therefore be compromised. Confirmation process not been carried out for coliforms and E.coli due to n
22940498	Cwm Dyli Hydro	Total Coliforms confirmed	Total coliforms identified as Escherichia coli, Citrobacter braakii, Klebsiella oxytoca.
22940499	Mound Tank	Total Coliforms confirmed	Total coliforms identified as Escherichia coli, Kluveria species, Raoultella species.

Name: **S. Tharmaseelan**

Date: **12 July 2023**

Signed: *S. Tharmaseelan*

Title: **Legionella Team Leader**

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**Mr Garden
Gwynant Ltd
Llyn Gwynant Campsite
Haford Lwyfog
Nant Gwynant
Caernafon LL55 4NW
Gwynedd**

09 November 2022

Test Report: COV/2391642/2022

Dear Mr Garden

Analysis of your sample(s) submitted on 25 October 2022 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Laboratories (UK) Limited and we look forward to receiving your next samples.

Yours Sincerely,

Signed:

Subbattin Tharmaseelan.

Name:

S. Tharmaseelan

Title:

Legionella Team Leader



1314



EMS675527

OHS 542058



Report Summary

ANALYSED BY

**Mr Peter Garden
Gwynant Ltd
Llyn Gwynant Campsite
Haford Lwyfog
Nant Gwynant
Caernafon
Gwynedd
LL55 4NW**



Date of Issue: **09 November 2022**

Report Number: **COV/2391642/2022**

Issue **1**

This issue replaces
all previous issues

Job Description: Waste Water

Number of Samples
included in this report **5**

Job Received: **25 October 2022**

Number of Test Results
included in this report **14**

Analysis Commenced: **26 October 2022**

Signed: *S. Tharmaseelan*

Name: **S. Tharmaseelan**

Date: **09 November 2022**

Title: **Legionella Team Leader**

ALS Laboratories (UK) Limited was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested and where relevant sampled.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This test report is not a statement of conformity to any specification or standard.

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Page 1 of 9

Certificate of Analysis

ANALYSED BY



Report Number: **COV/2391642/2022**

Laboratory Number: **22164698**

Issue **1**

Sample **1** of **5**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Primary**

Sample Matrix: **Untreated Sewage**

Sample Date/Time: **25 October 2022 10:40**

Sample Received: **25 October 2022**

Analysis Complete: **09 November 2022**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Nitrogen, Total as N	60.1	mg/l	02/11/2022	Y Cov	WAS022
Total Suspended Solids	75.0	mg/l	31/10/2022	Y Cov	WAS006
BOD + ATU (5 day)	72	mg/l	01/11/2022	Y Cov	WAS001
Phosphates, Total as P	14	mg/l	28/10/2022	Y Cov	WAS076

Analyst Comments for 22164698:

No Analyst Comment

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *Subbathin Tharmaseelan*

Name: **S. Tharmaseelan**

Date: **09 November 2022**

Title: **Legionella Team Leader**

ALS Laboratories (UK) Limited

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Certificate of Analysis

ANALYSED BY



Report Number: **COV/2391642/2022**

Laboratory Number: **22164699**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **SBR ML55**

Sample Matrix: **Untreated Sewage**

Sample Date/Time: **25 October 2022 09:10**

Sample Received: **25 October 2022**

Analysis Complete: **09 November 2022**

Issue **1**

Sample **2** of **5**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Total Suspended Solids	3940	mg/l	31/10/2022	Y Cov	WAS006

Analyst Comments for 22164699: No Analyst Comment

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *Subbathin Tharmaseelan*

Name: **S. Tharmaseelan**

Date: **09 November 2022**

Title: **Legionella Team Leader**

Certificate of Analysis

ANALYSED BY



Report Number: **COV/2391642/2022**
Laboratory Number: **22164700**
Sample Source: **Gwynant Ltd**
Sample Point Description:
Sample Description: **Flout Tank**
Sample Matrix: **Treated Sewage**
Sample Date/Time: **25 October 2022 10:30**
Sample Received: **25 October 2022**
Analysis Complete: **09 November 2022**

Issue **1**
Sample **3** of **5**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Ammoniacal Nitrogen as N	16.0	mg/l	26/10/2022	Y Cov	WAS036
Nitrogen, Total as N	22.3	mg/l	02/11/2022	Y Cov	WAS022
Total Suspended Solids	12.0	mg/l	31/10/2022	Y Cov	WAS006
BOD + ATU (5 day)	5	mg/l	01/11/2022	Y Cov	WAS001
Phosphates, Total as P	0.76	mg/l	28/10/2022	Y Cov	WAS076
E.Coli Dilution	6200	cfu/100ml	27/10/2022	N Cov	W10

Analyst Comments for 22164700:

This sample has been analysed for E.Coli Dilution outside recommended stability times. It is therefore possible that the results provided may be compromised.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *Subbathin Tharmaseelan*

Name: **S. Tharmaseelan**

Date: **09 November 2022**

Title: **Legionella Team Leader**

ALS Laboratories (UK) Limited

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Certificate of Analysis

ANALYSED BY



Report Number: **COV/2391642/2022**
Laboratory Number: **22164701**
Sample Source: **Gwynant Ltd**
Sample Point Description:
Sample Description: **Final UV**
Sample Matrix: **Treated Sewage**
Sample Date/Time: **25 October 2022 11:00**
Sample Received: **25 October 2022**
Analysis Complete: **09 November 2022**

Issue **1**
Sample **4** of **5**

Test Description	Result	Units	Analysis Date	Accreditation	Method
E.Coli Dilution	0	cfu/100ml	27/10/2022	N Cov	W10

Analyst Comments for 22164701:

This sample has been analysed for E.Coli Dilution outside recommended stability times. It is therefore possible that the results provided may be compromised.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *Subathin Tharmaseelan*

Name: **S. Tharmaseelan**

Date: **09 November 2022**

Title: **Legionella Team Leader**

Certificate of Analysis

ANALYSED BY



Report Number: **COV/2391642/2022**
Laboratory Number: **22164702**
Sample Source: **Gwynant Ltd**
Sample Point Description:
Sample Description: **River**
Sample Matrix: **Not Specified**
Sample Date/Time: **25 October 2022 11:00**
Sample Received: **25 October 2022**
Analysis Complete: **09 November 2022**

Issue **1**
Sample **5** of **5**

Test Description	Result	Units	Analysis Date	Accreditation	Method
E.coli presumptive	45	cfu/100ml	27/10/2022	N Cov	W10
Escherichia coli confirmed	49	cfu/100ml	28/10/2022	N Cov	W10

Analyst Comments for 22164702:

This sample has been analysed for Escherichia coli confirmed, E.coli presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *S. Tharmaseelan*

Name: **S. Tharmaseelan**

Date: **09 November 2022**

Title: **Legionella Team Leader**

ALS Laboratories (UK) Limited

Torrington Avenue, Coventry, CV4 9GU
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ANALYST COMMENTS FOR REPORT COV/2391642/2022

Issue 1

This issue replaces all previous issues

Date of Issue: 09 November 2022

Sample No	Analysis Comments
22164698	
22164699	
22164700	This sample has been analysed for E.Coli Dilution outside recommended stability times. It is therefore possible that the results provided may be compromised.
22164701	This sample has been analysed for E.Coli Dilution outside recommended stability times. It is therefore possible that the results provided may be compromised.
22164702	This sample has been analysed for Escherichia coli confirmed, E.coli presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised.

Signed: *Subbathin Tharmaseelan*

Name: **S. Tharmaseelan**

Date: **09 November 2022**

Title: **Legionella Team Leader**



DETERMINAND COMMENTS FOR REPORT COV/2391642/2022

ISSUE 1

Date of Issue: 09 November 2022

This issue replaces
all previous issues

Sample No	Description	Determinand	Comments

Signed: <i>S. Tharmaseelan</i>	Name: S. Tharmaseelan	Date: 09 November 2022
	Title: Legionella Team Leader	

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**Mr Garden
Gwynant Ltd
Llyn Gwynant Campsite
Haford Lwyfog
Nant Gwynant
Caernafon LL55 4NW
Gwynedd**

17 October 2022

Test Report: COV/2382135/2022

Dear Mr Garden

Analysis of your sample(s) submitted on 05 October 2022 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Laboratories (UK) Limited and we look forward to receiving your next samples.

Yours Sincerely,

Signed: 

Name: P. Patel

Title: Inorganics Chemistry Manager



1314



EMS675527

OHS 542058



Report Summary

ANALYSED BY

**Mr Peter Garden
Gwynant Ltd
Llyn Gwynant Campsite
Haford Lwyfog
Nant Gwynant
Caernafon
Gwynedd
LL55 4NW**



Date of Issue: **17 October 2022**

Report Number: **COV/2382135/2022**

Issue **1**

This issue replaces
all previous issues

Job Description: Waste Water

Number of Samples
included in this report **5**

Job Received: **05 October 2022**

Number of Test Results
included in this report **16**

Analysis Commenced: **05 October 2022**

Signed:

Name: **P. Patel**

Date: **17 October 2022**

Title: **Inorganics Chemistry Manager**

ALS Laboratories (UK) Limited was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested and where relevant sampled.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This test report is not a statement of conformity to any specification or standard.

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Certificate of Analysis

ANALYSED BY



Report Number: **COV/2382135/2022**

Laboratory Number: **22097104**

Issue **1**

Sample **1** of **5**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Primary Tank 1**

Sample Matrix: **Untreated Sewage**

Sample Date/Time: **03 October 2022 18:00**

Sample Received: **05 October 2022**

Analysis Complete: **17 October 2022**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Nitrogen, Total as N	88.2	mg/l	06/10/2022	Y Cov	WAS022
Total Suspended Solids	100	mg/l	06/10/2022	Y Cov	WAS006
BOD + ATU (5 day)	133	mg/l	15/10/2022	Y Cov	WAS001
Phosphates, Total as P	14	mg/l	06/10/2022	Y Cov	WAS076

Analyst Comments for 22097104:

This sample has been analysed for BOD + ATU (5 day) outside recommended stability times. It is therefore possible that the results provided may be compromised.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **P. Patel**

Date: **17 October 2022**

Title: **Inorganics Chemistry Manager**

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Certificate of Analysis

ANALYSED BY



Report Number: **COV/2382135/2022**

Laboratory Number: **22097105**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **SBR MLSS**

Sample Matrix: **Untreated Sewage**

Sample Date/Time: **03 October 2022 18:00**

Sample Received: **05 October 2022**

Analysis Complete: **17 October 2022**

Issue **1**

Sample **2** of **5**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Total Suspended Solids	2370	mg/l	06/10/2022	Y Cov	WAS006

Analyst Comments for 22097105: No Analyst Comment

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **P. Patel**

Date: **17 October 2022**

Title: **Inorganics Chemistry Manager**

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Certificate of Analysis

ANALYSED BY



Report Number: **COV/2382135/2022**

Laboratory Number: **22097106**

Issue **1**

Sample **3** of **5**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Flout Tank**

Sample Matrix: **Treated Sewage**

Sample Date/Time: **03 October 2022 17:45**

Sample Received: **05 October 2022**

Analysis Complete: **17 October 2022**

Test Description	Result	Units	Analysis Date	Accreditation	Method
E.coli presumptive	>100	cfu/100ml	06/10/2022	N Cov	W10
Escherichia coli confirmed	>100	cfu/100ml	06/10/2022	N Cov	W10
Ammoniacal Nitrogen as N	22.1	mg/l	05/10/2022	Y Cov	WAS036
Nitrogen, Total as N	44.4	mg/l	06/10/2022	Y Cov	WAS022
Total Suspended Solids	84.0	mg/l	06/10/2022	Y Cov	WAS006
BOD + ATU (5 day)	15	mg/l	14/10/2022	Y Cov	WAS001
Phosphates, Total as P	7.5	mg/l	06/10/2022	Y Cov	WAS076

Analyst Comments for 22097106:

This sample has been analysed for BOD + ATU (5 day), Escherichia coli confirmed, E.coli presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised. Confirmation process not been carried out for E.coli due to nature of the sample.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **P. Patel**

Date: **17 October 2022**

Title: **Inorganics Chemistry Manager**

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ANALYSED BY



Report Number: **COV/2382135/2022**
Laboratory Number: **22097107**
Sample Source: **Gwynant Ltd**
Sample Point Description:
Sample Description: **Final UV Treated**
Sample Matrix: **Treated Sewage**
Sample Date/Time: **03 October 2022 17:45**
Sample Received: **05 October 2022**
Analysis Complete: **17 October 2022**

Issue **1**
Sample **4** of **5**

Test Description	Result	Units	Analysis Date	Accreditation	Method
E.coli presumptive	>100	cfu/100ml	06/10/2022	N Cov	W10
Escherichia coli confirmed	>100	cfu/100ml	06/10/2022	N Cov	W10

Analyst Comments for 22097107:

This sample has been analysed for Escherichia coli confirmed, E.coli presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised. Confirmation process not been carried out for E.coli due to nature of the sample.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **P. Patel**

Date: **17 October 2022**

Title: **Inorganics Chemistry Manager**

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Certificate of Analysis

ANALYSED BY



Report Number: **COV/2382135/2022**
Laboratory Number: **22097108**
Sample Source: **Gwynant Ltd**
Sample Point Description:
Sample Description: **Drip Field**
Sample Matrix: **Treated Sewage**
Sample Date/Time: **03 October 2022 18:15**
Sample Received: **05 October 2022**
Analysis Complete: **17 October 2022**

Issue **1**
Sample **5** of **5**

Test Description	Result	Units	Analysis Date	Accreditation	Method
E.coli presumptive	0	cfu/100ml	09/10/2022	N Cov	W10
Escherichia coli confirmed	0	cfu/100ml	09/10/2022	N Cov	W10

Analyst Comments for 22097108:

This sample has been analysed for Escherichia coli confirmed, E.coli presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised. Total coliforms identified as Citrobacter gillenii.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **P. Patel**

Date: **17 October 2022**

Title: **Inorganics Chemistry Manager**

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**ANALYST COMMENTS FOR REPORT COV/2382135/2022****Issue 1**

This issue replaces all previous issues

Date of Issue: 17 October 2022

Sample No	Analysis Comments
22097104	This sample has been analysed for BOD + ATU (5 day) outside recommended stability times. It is therefore possible that the results provided may be compromised.
22097105	
22097106	This sample has been analysed for BOD + ATU (5 day), Escherichia coli confirmed, E.coli presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised. Confirmation process not been carried out for E.coli due to nature of the sample.
22097107	This sample has been analysed for Escherichia coli confirmed, E.coli presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised. Confirmation process not been carried out for E.coli due to nature of the sample.
22097108	This sample has been analysed for Escherichia coli confirmed, E.coli presumptive outside recommended stability times. It is therefore possible that the results provided may be compromised. Total coliforms identified as Citrobacter gillenii.

Signed: Name: **P. Patel**Date: **17 October 2022**Title: **Inorganics Chemistry Manager**



DETERMINAND COMMENTS FOR REPORT COV/2382135/2022

ISSUE 1

Date of Issue: 17 October 2022

This issue replaces
all previous issues

Sample No	Description	Determinand	Comments
22097106	Flout Tank	E.coli presumptive	Confirmation process not been carried out for E.coli due to nature of the sample.
22097107	Final UV Treated	E.coli presumptive	Confirmation process not been carried out for E.coli due to nature of the sample.
22097108	Drip Field	E.coli presumptive	Total coliforms identified as Citrobacter gillenii.

Signed: 

Name: **P. Patel**

Date: **17 October 2022**

Title: **Inorganics Chemistry Manager**

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**Mr Garden
Gwynant Ltd
Llyn Gwynant Campsite
Haford Lwyfog
Nant Gwynant
Caernafon LL55 4NW
Gwynedd**

06 October 2022

Test Report: COV/2378796/2022

Dear Mr Garden

Analysis of your sample(s) submitted on 28 September 2022 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Laboratories (UK) Limited and we look forward to receiving your next samples.

Yours Sincerely,

Signed: *Elizabeth Parker.*

Name: E. Parker

Title: Potable Micro Team Leader



1314



EMS675527

OHS 542058



Report Summary

ANALYSED BY

**Mr Peter Garden
Gwynant Ltd
Llyn Gwynant Campsite
Haford Lwyfog
Nant Gwynant
Caernafon
Gwynedd
LL55 4NW**



Date of Issue: **06 October 2022**

Report Number: **COV/2378796/2022**

Issue **1**

This issue replaces
all previous issues

Job Description: Waste Water

Number of Samples
included in this report **5**

Job Received: **28 September 2022**

Number of Test Results
included in this report **16**

Analysis Commenced: **28 September 2022**

Signed: *Elizabeth Parker*

Name: **E. Parker**

Date: **06 October 2022**

Title: **Potable Micro Team Leader**

ALS Laboratories (UK) Limited was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested and where relevant sampled.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This test report is not a statement of conformity to any specification or standard.

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Certificate of Analysis

ANALYSED BY



Report Number: **COV/2378796/2022**

Laboratory Number: **22073124**

Issue **1**

Sample **1** of **5**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Primary Tank 1**

Sample Matrix: **Untreated Sewage**

Sample Date/Time: **27 September 2022 11:45**

Sample Received: **28 September 2022**

Analysis Complete: **06 October 2022**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Nitrogen, Total as N	123	mg/l	05/10/2022	Y Cov	WAS022
Total Suspended Solids	96.0	mg/l	28/09/2022	Y Cov	WAS006
BOD + ATU (5 day)	413	mg/l	03/10/2022	Y Cov	WAS001
Phosphates, Total as P	17	mg/l	29/09/2022	Y Cov	WAS076

Analyst Comments for 22073124:

{/*}Sample filtered through 0.45um filter prior to Nitrogen analysis.{/*}

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *Elizabeth Parker.*

Name: **E. Parker**

Date: **06 October 2022**

Title: **Potable Micro Team Leader**

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Certificate of Analysis

ANALYSED BY



Report Number: **COV/2378796/2022**

Laboratory Number: **22073125**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **SBR MLSS**

Sample Matrix: **Untreated Sewage**

Sample Date/Time: **27 September 2022 11:45**

Sample Received: **28 September 2022**

Analysis Complete: **06 October 2022**

Issue **1**

Sample **2** of **5**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Total Suspended Solids	900	mg/l	28/09/2022	Y Cov	WAS006

Analyst Comments for 22073125: No Analyst Comment

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *Elizabeth Parker.*

Name: **E. Parker**

Date: **06 October 2022**

Title: **Potable Micro Team Leader**

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Report Number: **COV/2378796/2022**

Laboratory Number: **22073126**

Issue **1**

Sample **3** of **5**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Flout Tank**

Sample Matrix: **Treated Sewage**

Sample Date/Time: **27 September 2022 11:25**

Sample Received: **28 September 2022**

Analysis Complete: **06 October 2022**

Test Description	Result	Units	Analysis Date	Accreditation	Method
E.coli presumptive	>100	cfu/100ml	29/09/2022	N Cov	W10
Escherichia coli confirmed	>100	cfu/100ml	29/09/2022	N Cov	W10
Ammoniacal Nitrogen as N	19.0	mg/l	28/09/2022	Y Cov	WAS036
Nitrogen, Total as N	44.1	mg/l	30/09/2022	Y Cov	WAS022
Total Suspended Solids	30.0	mg/l	28/09/2022	Y Cov	WAS006
BOD + ATU (5 day)	13	mg/l	03/10/2022	Y Cov	WAS001
Phosphates, Total as P	3.9	mg/l	29/09/2022	Y Cov	WAS076

Analyst Comments for 22073126:

Confirmation process not been carried out for E.coli due to nature of the sample.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: <i>Elizabeth Parker</i>	Name: E. Parker	Date: 06 October 2022
	Title: Potable Micro Team Leader	

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Report Number: **COV/2378796/2022**
Laboratory Number: **22073127**
Sample Source: **Gwynant Ltd**
Sample Point Description:
Sample Description: **Final UV Treated**
Sample Matrix: **Treated Sewage**
Sample Date/Time: **27 September 2022 11:25**
Sample Received: **28 September 2022**
Analysis Complete: **06 October 2022**

Issue **1**
Sample **4** of **5**

Test Description	Result	Units	Analysis Date	Accreditation	Method
E.coli presumptive	>100	cfu/100ml	29/09/2022	N Cov	W10
Escherichia coli confirmed	>100	cfu/100ml	29/09/2022	N Cov	W10

Analyst Comments for 22073127:

Confirmation process not been carried out for E.coli due to nature of the sample.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *Elizabeth Parker.*

Name: **E. Parker**

Date: **06 October 2022**

Title: **Potable Micro Team Leader**

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ANALYSED BY



Report Number: **COV/2378796/2022**

Laboratory Number: **22073128**

Issue **1**

Sample **5** of **5**

Sample Source: **Gwynant Ltd**

Sample Point Description:

Sample Description: **Drip Field**

Sample Matrix: **Treated Sewage**

Sample Date/Time: **27 September 2022 11:10**

Sample Received: **28 September 2022**

Analysis Complete: **06 October 2022**

Test Description	Result	Units	Analysis Date	Accreditation	Method
E.coli presumptive	1	cfu/100ml	29/09/2022	N Cov	W10
Escherichia coli confirmed	1	cfu/100ml	29/09/2022	N Cov	W10

Analyst Comments for 22073128:

Confirmation process not been carried out for E.coli due to nature of the sample.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: CHE = Chester(CH5 3US), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2RU), S = Subcontracted, TRB = Subcontracted to Trowbridge(BA14 0XD), WAK = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *Elizabeth Parker.*

Name: **E. Parker**

Date: **06 October 2022**

Title: **Potable Micro Team Leader**



ANALYST COMMENTS FOR REPORT COV/2378796/2022

Issue 1

This issue replaces all previous issues

Date of Issue: **06 October 2022**

Sample No	Analysis Comments
22073124	{/*}Sample filtered through 0.45um filter prior to Nitrogen analysis.{*/}
22073125	
22073126	Confirmation process not been carried out for E.coli due to nature of the sample.
22073127	Confirmation process not been carried out for E.coli due to nature of the sample.
22073128	Confirmation process not been carried out for E.coli due to nature of the sample.

Signed: *Elizabeth Parker.*

Name: **E. Parker**

Date: **06 October 2022**

Title: **Potable Micro Team Leader**



DETERMINAND COMMENTS FOR REPORT COV/2378796/2022

ISSUE 1

Date of Issue: 06 October 2022

This issue replaces
all previous issues

Sample No	Description	Determinand	Comments
22073126	Flout Tank	E.coli presumptive	Confirmation process not been carried out for E.coli due to nature of the sample.
22073127	Final UV Treated	E.coli presumptive	Confirmation process not been carried out for E.coli due to nature of the sample.
22073128	Drip Field	E.coli presumptive	Confirmation process not been carried out for E.coli due to nature of the sample.

Signed: *Elizabeth Parker*.

Name: **E. Parker**

Date: **06 October 2022**

Title: **Potable Micro Team Leader**

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