

**ALS Laboratories (UK) Limited Torrington Avenue** Coventry

T: +44 (0)24 7642 1213 F: +44 (0)24 7685 6575 www.alsenvironmental.co.uk

CV4 9GU

24 October 2022

Test Report: COV/2387518/2022

Dear Mr Morris

Mr Morris **Enviroarm Ltd** 

597 Walsall Road

Walsall WS6 6AE Staffordshire

Great Wyrley

Analysis of your sample(s) submitted on 14 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:

A 1 Horobin

Name:

A. Horobin

Title:







## Report Summary

Mr Andy Morris Enviroarm Ltd 597 Walsall Road Great Wyrley Walsall Staffordshire WS6 6AE ANALYSED BY





Date of Issue: 24 October 2022

Report Number: COV/2387518/2022 Issue 1

This issue replaces all previous issues

Job Description: Water Analysis

Job Location: Chadwich Lane

Number of Samples

included in this report 5

Number of Test Results included in this report 125

Job Received: 14 October 2022

Analysis Commenced: 18 October 2022

Signed: A \ HONGIN

Name: A. Horobin Date: 24 October 2022

Title: Chemistry Operations 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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### ANALYSED BY





Issue

Sample

of **5** 

Report Number: COV/2387518/2022

Laboratory Number: 22135011

Sample Source: Enviroarm Ltd

Sample Point Description:

Sample Description: BH1

Test Description	Result	Units	Analysis Date	Accre	ditation	Method
Cadmium , Total as Cd	0.0007	mg/l	20/10/2022	Y	Cov	WAS049
Calcium , Total as Ca	37.2	mg/l	20/10/2022	Υ	Cov	WAS049
Chromium , Total as Cr	0.022	mg/l	20/10/2022	Υ	Cov	WAS049
Copper, Total as Cu	0.011	mg/l	20/10/2022	Υ	Cov	WAS049
Iron , Total as Fe	1.41	mg/l	20/10/2022	Y	Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	20/10/2022	Υ	Cov	WAS049
Magnesium, Total as Mg	13.7	mg/l	20/10/2022	Υ	Cov	WAS049
Manganese , Total as Mn	75.5	ug/l	20/10/2022	Y	Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	19/10/2022	Y	Cov	WAS013
Nickel , Total as Ni	65.1	ug/l	20/10/2022	Y	Cov	WAS049
Potassium , Total as K	8.96	mg/l	20/10/2022	Y	Cov	WAS049
Sodium , Total as Na	13.7	mg/l	20/10/2022	Y	Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	20/10/2022	Y	Cov	WAS049
рН	6.2	pH units	18/10/2022	Y	Cov	WAS039
Conductivity- Electrical 20C	364	uS/cm	18/10/2022	Υ	Cov	WAS039
Alkalinity as CaCO3	71.2	mg/l	19/10/2022	Y	Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	18/10/2022	Y	Cov	WAS067
Chloride as Cl	30.0	mg/l	19/10/2022	N	Cov	WAS036
Nitrite as N	<0.08	mg/l	19/10/2022	N	Cov	WAS036
Nitrate as N	5.2	mg/l	19/10/2022	N	Cov	WAS036
Sulphate as SO4	59.0	mg/l	19/10/2022	N	Cov	WAS036
Dissolved Oxygen, Fixed	4.3	mg/l	19/10/2022	Υ	Cov	WAS052
COD (Total)	14.0	mg/l	20/10/2022	Y	Cov	WAS040

### ANALYSED BY





COV/2387518/2022 Report Number:

Laboratory Number: 22135011

**Enviroarm Ltd** Sample Source:

Sample Point Description:

Sample Description: BH1

Sample Matrix: **Ground Water** 13 October 2022 Sample Date/Time: 14 October 2022 Sample Received: 24 October 2022 Analysis Complete:

Test Description	Result	Units	Analysis Date	Accreditation	Method
TOC (Filtered)	2.3	mg/l	19/10/2022	Y Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	21/10/2022	Y Cov	WAS018

Analyst Comments for 22135011:

This sample has been analysed for pH, Dissolved Oxygen, Fixed, Nitrite as N, Nitrate as N, COD (Total) 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.

Name:

A. Horobin

Issue

Sample

of **5** 

Date: 24 October 2022

Signed: A \ Horogin

### ANALYSED BY





Issue

Sample

2

of **5** 

Report Number: COV/2387518/2022

Laboratory Number: 22135012

Sample Source: Enviroarm Ltd

Sample Point Description:

Sample Description: BH2

Test Description	Result	Units	Analysis Date	Accre	ditation	Method
Cadmium , Total as Cd	0.0016	mg/l	20/10/2022	Y	Cov	WAS049
Calcium , Total as Ca	38.0	mg/l	20/10/2022	Y	Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	20/10/2022	Y	Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	20/10/2022	Y	Cov	WAS049
Iron , Total as Fe	<0.23	mg/l	20/10/2022	Y	Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	20/10/2022	Y	Cov	WAS049
Magnesium, Total as Mg	19.7	mg/l	20/10/2022	Y	Cov	WAS049
Manganese , Total as Mn	54.5	ug/l	20/10/2022	Υ	Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	19/10/2022	Y	Cov	WAS013
Nickel , Total as Ni	28.3	ug/l	20/10/2022	Y	Cov	WAS049
Potassium , Total as K	3.68	mg/l	20/10/2022	Y	Cov	WAS049
Sodium , Total as Na	11.4	mg/l	20/10/2022	Y	Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	20/10/2022	Y	Cov	WAS049
рН	5.3	pH units	18/10/2022	Y	Cov	WAS039
Conductivity- Electrical 20C	408	uS/cm	18/10/2022	Y	Cov	WAS039
Alkalinity as CaCO3	6.8	mg/l	19/10/2022	Y	Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	18/10/2022	Υ	Cov	WAS067
Chloride as Cl	26.5	mg/l	19/10/2022	N	Cov	WAS036
Nitrite as N	<0.08	mg/l	19/10/2022	N	Cov	WAS036
Nitrate as N	19.1	mg/l	19/10/2022	N	Cov	WAS036
Sulphate as SO4	94.5	mg/l	19/10/2022	N	Cov	WAS036
Dissolved Oxygen, Fixed	7.4	mg/l	19/10/2022	Y	Cov	WAS052
COD (Total)	<11.0	mg/l	20/10/2022	Y	Cov	WAS040

### ANALYSED BY





COV/2387518/2022 Report Number:

Laboratory Number: 22135012

**Enviroarm Ltd** Sample Source:

Sample Point Description:

Sample Description: BH<sub>2</sub>

Sample Matrix: **Ground Water** Sample Date/Time: 13 October 2022 14 October 2022 Sample Received: 24 October 2022 Analysis Complete:

Test Description	Result	Units	Analysis Date	Accreditation	Method
TOC (Filtered)	1.6	mg/l	19/10/2022	Y Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	21/10/2022	Y Cov	WAS018

Analyst Comments for 22135012:

This sample has been analysed for pH, Dissolved Oxygen, Fixed, Nitrite as N, Nitrate as N, COD (Total) outside recommended stability times. It is therefore possible that the results provided may be compromised. {/\*}Sample filtered through 0.45um filter prior to Cyanide 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.

Name:

A. Horobin

Issue

Sample

2

of **5** 

Date: 24 October 2022

Signed: A \ Horogin

### ANALYSED BY





Issue

Sample

3

of **5** 

Report Number: COV/2387518/2022

Laboratory Number: 22135013

Sample Source: Enviroarm Ltd

Sample Point Description:

Sample Description: BH3

Test Description	Result	Units	Analysis Date	Accred	ditation	Method
Cadmium , Total as Cd	0.0018	mg/l	20/10/2022	Υ	Cov	WAS049
Calcium , Total as Ca	36.1	mg/l	20/10/2022	Υ	Cov	WAS049
Chromium , Total as Cr	0.014	mg/l	20/10/2022	Υ	Cov	WAS049
Copper, Total as Cu	0.010	mg/l	20/10/2022	Υ	Cov	WAS049
Iron , Total as Fe	1.19	mg/l	20/10/2022	Υ	Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	20/10/2022	Υ	Cov	WAS049
Magnesium, Total as Mg	18.8	mg/l	20/10/2022	Υ	Cov	WAS049
Manganese , Total as Mn	129	ug/l	20/10/2022	Υ	Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	19/10/2022	Υ	Cov	WAS013
Nickel , Total as Ni	91.9	ug/l	20/10/2022	Υ	Cov	WAS049
Potassium , Total as K	3.57	mg/l	20/10/2022	Υ	Cov	WAS049
Sodium , Total as Na	11.3	mg/l	20/10/2022	Υ	Cov	WAS049
Zinc, Total as Zn	0.05	mg/l	20/10/2022	Υ	Cov	WAS049
рН	5.3	pH units	18/10/2022	Υ	Cov	WAS039
Conductivity- Electrical 20C	408	uS/cm	18/10/2022	Υ	Cov	WAS039
Alkalinity as CaCO3	6.6	mg/l	19/10/2022	Υ	Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	18/10/2022	Υ	Cov	WAS067
Chloride as Cl	26.6	mg/l	19/10/2022	N	Cov	WAS036
Nitrite as N	<0.08	mg/l	19/10/2022	N	Cov	WAS036
Nitrate as N	19.3	mg/l	19/10/2022	N	Cov	WAS036
Sulphate as SO4	93.0	mg/l	19/10/2022	N	Cov	WAS036
Dissolved Oxygen, Fixed	8.0	mg/l	19/10/2022	Υ	Cov	WAS052
COD (Total)	<11.0	mg/l	20/10/2022	Υ	Cov	WAS040

### ANALYSED BY





COV/2387518/2022 Report Number:

Laboratory Number: 22135013

**Enviroarm Ltd** Sample Source:

Sample Point Description:

Sample Description: **BH3** 

Sample Matrix: **Ground Water** 13 October 2022 Sample Date/Time: 14 October 2022 Sample Received: 24 October 2022 Analysis Complete:

Test Description	Result	Units	Analysis Date	Accred	litation	Method
TOC (Filtered)	1.7	mg/l	19/10/2022	Y	Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	21/10/2022	Y	Cov	WAS018

Analyst Comments for 22135013:

This sample has been analysed for pH, Dissolved Oxygen, Fixed, Nitrite as N, Nitrate as N, COD (Total) outside recommended stability times. It is therefore possible that the results provided may be compromised. {/\*}Sample filtered through 0.45um filter prior to Cyanide analysis.{\*/}

This issue replaces all previous issues

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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.

Name:

A. Horobin

Issue

Sample

3

of **5** 

Date: 24 October 2022

Signed: A \ Horogin

### ANALYSED BY





Issue

Sample

of **5** 

Report Number: COV/2387518/2022

Laboratory Number: 22135014

Sample Source: Enviroarm Ltd

Sample Point Description:

Sample Description: BH4

Test Description	Result	Units	Analysis Date	Accred	ditation	Method
Cadmium , Total as Cd	0.0009	mg/l	20/10/2022	Υ	Cov	WAS049
Calcium , Total as Ca	21.5	mg/l	20/10/2022	Υ	Cov	WAS049
Chromium , Total as Cr	0.019	mg/l	20/10/2022	Υ	Cov	WAS049
Copper, Total as Cu	0.012	mg/l	20/10/2022	Υ	Cov	WAS049
Iron , Total as Fe	1.92	mg/l	20/10/2022	Υ	Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	20/10/2022	Υ	Cov	WAS049
Magnesium, Total as Mg	6.0	mg/l	20/10/2022	Υ	Cov	WAS049
Manganese , Total as Mn	141	ug/l	20/10/2022	Υ	Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	19/10/2022	Υ	Cov	WAS013
Nickel , Total as Ni	72.3	ug/l	20/10/2022	Υ	Cov	WAS049
Potassium , Total as K	4.01	mg/l	20/10/2022	Υ	Cov	WAS049
Sodium , Total as Na	7.03	mg/l	20/10/2022	Υ	Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	20/10/2022	Υ	Cov	WAS049
рН	5.6	pH units	18/10/2022	Υ	Cov	WAS039
Conductivity- Electrical 20C	203	uS/cm	18/10/2022	Υ	Cov	WAS039
Alkalinity as CaCO3	8.0	mg/l	19/10/2022	Υ	Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	18/10/2022	Υ	Cov	WAS067
Chloride as Cl	12.1	mg/l	19/10/2022	N	Cov	WAS036
Nitrite as N	<0.08	mg/l	19/10/2022	N	Cov	WAS036
Nitrate as N	7.6	mg/l	19/10/2022	N	Cov	WAS036
Sulphate as SO4	44.9	mg/l	19/10/2022	N	Cov	WAS036
Dissolved Oxygen, Fixed	9.7	mg/l	19/10/2022	Υ	Cov	WAS052
COD (Total)	15.0	mg/l	20/10/2022	Υ	Cov	WAS040

### ANALYSED BY





COV/2387518/2022 Report Number:

Laboratory Number: 22135014

**Enviroarm Ltd** Sample Source:

Sample Point Description:

Sample Description: BH4

Sample Matrix: **Ground Water** 13 October 2022 Sample Date/Time: 14 October 2022 Sample Received: 24 October 2022 Analysis Complete:

Test Description	Result	Units	Analysis Date	Accre	ditation	Method
TOC (Filtered)	1.0	mg/l	19/10/2022	Y	Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	21/10/2022	Y	Cov	WAS018

Analyst Comments for 22135014:

This sample has been analysed for pH, Dissolved Oxygen, Fixed, Nitrite as N, Nitrate as N, COD (Total) 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.

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Name:

A. Horobin

Issue

Sample

of 5

Date: 24 October 2022

Signed: A \ Horogin

### ANALYSED BY





Issue

Sample

5

of **5** 

Report Number: COV/2387518/2022

Laboratory Number: 22135015

Sample Source: Enviroarm Ltd

Sample Point Description:

Sample Description: BH5

Test Description	Result	Units	Analysis Date	Accre	ditation	Method
Cadmium , Total as Cd	0.0008	mg/l	20/10/2022	Y	Cov	WAS049
Calcium , Total as Ca	21.3	mg/l	20/10/2022	Υ	Cov	WAS049
Chromium , Total as Cr	0.014	mg/l	20/10/2022	Υ	Cov	WAS049
Copper, Total as Cu	0.011	mg/l	20/10/2022	Υ	Cov	WAS049
Iron , Total as Fe	0.67	mg/l	20/10/2022	Υ	Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	20/10/2022	Y	Cov	WAS049
Magnesium, Total as Mg	5.1	mg/l	20/10/2022	Υ	Cov	WAS049
Manganese , Total as Mn	36.9	ug/l	20/10/2022	Y	Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	19/10/2022	Y	Cov	WAS013
Nickel , Total as Ni	62.6	ug/l	20/10/2022	Y	Cov	WAS049
Potassium , Total as K	5.49	mg/l	20/10/2022	Y	Cov	WAS049
Sodium , Total as Na	27.3	mg/l	20/10/2022	Y	Cov	WAS049
Zinc, Total as Zn	0.02	mg/l	20/10/2022	Y	Cov	WAS049
рН	5.9	pH units	18/10/2022	Y	Cov	WAS039
Conductivity- Electrical 20C	301	uS/cm	18/10/2022	Y	Cov	WAS039
Alkalinity as CaCO3	14.0	mg/l	19/10/2022	Y	Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.07	mg/l	18/10/2022	Y	Cov	WAS067
Chloride as Cl	34.8	mg/l	19/10/2022	N	Cov	WAS036
Nitrite as N	<0.08	mg/l	19/10/2022	N	Cov	WAS036
Nitrate as N	8.1	mg/l	19/10/2022	N	Cov	WAS036
Sulphate as SO4	53.3	mg/l	19/10/2022	N	Cov	WAS036
Dissolved Oxygen, Fixed	9.4	mg/l	19/10/2022	Y	Cov	WAS052
COD (Total)	<11.0	mg/l	20/10/2022	Y	Cov	WAS040

### ANALYSED BY





COV/2387518/2022 Report Number:

Laboratory Number: 22135015

**Enviroarm Ltd** Sample Source:

Sample Point Description:

Sample Description: BH<sub>5</sub>

Sample Matrix: **Ground Water** 13 October 2022 Sample Date/Time: 14 October 2022 Sample Received: 24 October 2022 Analysis Complete:

Test Description	Result	Units	Analysis Date	Accreditation	Method
TOC (Filtered)	<0.7	mg/l	19/10/2022	Y Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	21/10/2022	Y Cov	WAS018

Analyst Comments for 22135015:

This sample has been analysed for pH, Dissolved Oxygen, Fixed, Nitrite as N, Nitrate as N, COD (Total) 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.

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Name:

A. Horobin

Issue

Sample

5

of **5** 

Date: 24 October 2022

Signed: A \ Horogin

Title:

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