

ALS Environmental Ltd Torrington Avenue Coventry CV4 9GU

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

02 August 2022

Test Report: COV/2346874/2022

Dear Mr Morris

Analysis of your sample(s) submitted on 19 July 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 Environmental Ltd and we look forward to receiving your next samples.

Yours Sincerely,

Signed:

Name: R. Stocks







Report Summary

ANALYSED BY





Date of Issue: 02 August 2022

Report Number: COV/2346874/2022 Issue 1

This issue replaces all previous issues

19 July 2022

Date: 02 August 2022

Job Description: Water Analysis

Job Location: Chadwich Lane

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

Analysis Commenced: 20 July 2022

Job Received:

Number of Test Results included in this report 125

Signed:

Title: Inorganic Team Leader

Name: R. Stocks

ALS Environmental Ltd 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 Environmental Ltd. Registered in England and Wales. Registration No. 02148934. Registered Office: ALS Environmental Limited, Torrington Avenue, Coventry, CV4 9GU.

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Issue

Sample

1

of **5**

Report Number: COV/2346874/2022

Laboratory Number: 21843311

Sample Source: Enviroarm Ltd

Sample Point Description:

Sample Description: BH1

Test Description	Result	Units	Analysis Date	Accredi	tation	Method
Cadmium , Total as Cd	<0.0006	mg/l	26/07/2022	N	Cov	WAS049
Calcium , Total as Ca	34.8	mg/l	26/07/2022	N	Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	26/07/2022	N	Cov	WAS049
Copper, Total as Cu	0.023	mg/l	26/07/2022	N	Cov	WAS049
Iron , Total as Fe	0.31	mg/l	26/07/2022	N	Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	26/07/2022	N	Cov	WAS049
Magnesium, Total as Mg	12.8	mg/l	26/07/2022	N	Cov	WAS049
Manganese , Total as Mn	36.0	ug/l	26/07/2022	N	Cov	WAS049
Mercury, Total as Hg	<0.00020	mg/l	01/08/2022	N	Cov	WAS013
Nickel , Total as Ni	13.8	ug/l	26/07/2022	N	Cov	WAS049
Potassium , Total as K	8.61	mg/l	26/07/2022	N	Cov	WAS049
Sodium , Total as Na	13.8	mg/l	26/07/2022	N	Cov	WAS049
Zinc, Total as Zn	0.04	mg/l	26/07/2022	N	Cov	WAS049
рН	6.4	pH units	20/07/2022	N	Cov	WAS039
Conductivity- Electrical 20C	362	uS/cm	20/07/2022	N	Cov	WAS039
Alkalinity as CaCO3	83.2	mg/l	27/07/2022	N	Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	21/07/2022	N	Cov	WAS067
Chloride as Cl	27.6	mg/l	20/07/2022	N	Cov	WAS036
Nitrite as N	<0.08	mg/l	20/07/2022	N	Cov	WAS036
Nitrate as N	5.0	mg/l	20/07/2022	N	Cov	WAS036
Sulphate as SO4	56.5	mg/l	20/07/2022	N	Cov	WAS036
Dissolved Oxygen, Fixed	3.9	mg/l	21/07/2022	N	Cov	WAS052
COD (Total)	36.0	mg/l	29/07/2022	N	Cov	WAS040

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Report Number: COV/2346874/2022

Laboratory Number: 21843311

Enviroarm Ltd Sample Source:

Sample Point Description:

Sample Description: BH1

Sample Matrix: **Not Specified** 18 July 2022 Sample Date/Time: 19 July 2022 Sample Received: Analysis Complete: 02 August 2022

Test Description	Result	Units	Analysis Date	Accreditation	n Method
TOC (Filtered)	3.0	mg/l	20/07/2022	N Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	27/07/2022	N Cov	WAS018

Analyst Comments for 21843311:

This sample has been analysed for COD (Total) outside recommended stability times. It is therefore possible that the results provided may be compromised. {/*}Reporting limit raised for Mercury due to sample matrix interference.

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: R. Stocks

Issue

Sample

of **5**

Date: **02 August 2022**

Signed: []

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Issue

Sample

2

of **5**

Report Number: COV/2346874/2022

Laboratory Number: 21843312

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	26/07/2022	N	Cov	WAS049
Calcium , Total as Ca	34.5	mg/l	26/07/2022	N	Cov	WAS049
Chromium , Total as Cr	0.012	mg/l	26/07/2022	N	Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	26/07/2022	N	Cov	WAS049
Iron , Total as Fe	1.05	mg/l	26/07/2022	N	Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	26/07/2022	N	Cov	WAS049
Magnesium, Total as Mg	17.6	mg/l	26/07/2022	N	Cov	WAS049
Manganese , Total as Mn	83.8	ug/l	26/07/2022	N	Cov	WAS049
Mercury, Total as Hg	<0.00020	mg/l	01/08/2022	N	Cov	WAS013
Nickel , Total as Ni	91.8	ug/l	26/07/2022	N	Cov	WAS049
Potassium , Total as K	3.51	mg/l	26/07/2022	N	Cov	WAS049
Sodium , Total as Na	11.0	mg/l	26/07/2022	N	Cov	WAS049
Zinc, Total as Zn	0.04	mg/l	26/07/2022	N	Cov	WAS049
рН	5.3	pH units	20/07/2022	N	Cov	WAS039
Conductivity- Electrical 20C	403	uS/cm	20/07/2022	N	Cov	WAS039
Alkalinity as CaCO3	7.2	mg/l	30/07/2022	N	Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	21/07/2022	N	Cov	WAS067
Chloride as Cl	28.7	mg/l	20/07/2022	N	Cov	WAS036
Nitrite as N	<0.08	mg/l	20/07/2022	N	Cov	WAS036
Nitrate as N	19.9	mg/l	20/07/2022	N	Cov	WAS036
Sulphate as SO4	88.0	mg/l	20/07/2022	N	Cov	WAS036
Dissolved Oxygen, Fixed	6.8	mg/l	21/07/2022	N	Cov	WAS052
COD (Total)	12.0	mg/l	29/07/2022	N	Cov	WAS040

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Report Number: COV/2346874/2022

21843312

Enviroarm Ltd

Laboratory Number:

Sample Point Description:

Sample Source:

Sample Description: BH₂

Sample Matrix: **Not Specified** 18 July 2022 Sample Date/Time: 19 July 2022 Sample Received: Analysis Complete: 02 August 2022

Test Description	Result	Units	Analysis Date	Accred	ditation	Method
TOC (Filtered)	1.7	mg/l	20/07/2022	N	Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	27/07/2022	N	Cov	WAS018

Analyst Comments for 21843312:

This sample has been analysed for COD (Total) outside recommended stability times. It is therefore possible that the results provided may be compromised. {/*}Reporting limit raised for Mercury due to sample matrix interference.

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: R. Stocks

Date: **02 August 2022**

Issue

Sample

2

of **5**

Signed: []

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Issue

Sample

3

of **5**

Report Number: COV/2346874/2022

Laboratory Number: 21843313

Sample Source: Enviroarm Ltd

Sample Point Description:

Sample Description: BH3

Test Description	Result	Units	Analysis Date	Accred	itation	Method
Cadmium , Total as Cd	0.0010	mg/l	26/07/2022	N	Cov	WAS049
Calcium , Total as Ca	46.4	mg/l	26/07/2022	N	Cov	WAS049
Chromium , Total as Cr	0.029	mg/l	26/07/2022	N	Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	26/07/2022	N	Cov	WAS049
Iron , Total as Fe	1.79	mg/l	26/07/2022	N	Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	26/07/2022	N	Cov	WAS049
Magnesium, Total as Mg	13.2	mg/l	26/07/2022	N	Cov	WAS049
Manganese , Total as Mn	304	ug/l	26/07/2022	N	Cov	WAS049
Mercury, Total as Hg	<0.00020	mg/l	01/08/2022	N	Cov	WAS013
Nickel , Total as Ni	92.0	ug/l	26/07/2022	N	Cov	WAS049
Potassium , Total as K	6.30	mg/l	26/07/2022	N	Cov	WAS049
Sodium , Total as Na	9.29	mg/l	26/07/2022	N	Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	26/07/2022	N	Cov	WAS049
рН	5.6	pH units	20/07/2022	N	Cov	WAS039
Conductivity- Electrical 20C	422	uS/cm	20/07/2022	N	Cov	WAS039
Alkalinity as CaCO3	4.2	mg/l	28/07/2022	N	Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	21/07/2022	N	Cov	WAS067
Chloride as Cl	28.5	mg/l	20/07/2022	N	Cov	WAS036
Nitrite as N	<0.08	mg/l	20/07/2022	N	Cov	WAS036
Nitrate as N	4.3	mg/l	20/07/2022	N	Cov	WAS036
Sulphate as SO4	157	mg/l	20/07/2022	N	Cov	WAS036
Dissolved Oxygen, Fixed	7.2	mg/l	21/07/2022	N	Cov	WAS052
COD (Total)	41.0	mg/l	29/07/2022	N	Cov	WAS040

ANALYSED BY



Issue

Sample

Date: 02 August 2022

3

of **5**

Report Number: COV/2346874/2022

Laboratory Number: 21843313

Enviroarm Ltd Sample Source:

Sample Point Description:

Sample Description: **BH3**

Sample Matrix: **Not Specified** 18 July 2022 Sample Date/Time: 19 July 2022 Sample Received: Analysis Complete: 02 August 2022

Test Description	Result	Units	Analysis Date	Accreditat	ion Method
TOC (Filtered)	1.6	mg/l	20/07/2022	N Co	/ WAS005
Cyanide, Total as CN	<0.009	mg/l	27/07/2022	N Co	/ WAS018

Analyst Comments for 21843313:

This sample has been analysed for 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.

Reporting limit raised for Mercury due to sample matrix interference.

This issue replaces all previous issues

Signed:

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: R. Stocks

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Issue

Sample

of **5**

Report Number: COV/2346874/2022

Laboratory Number: 21843314

Sample Source: Enviroarm Ltd

Sample Point Description:

Sample Description: BH4

Test Description	Result	Units	Analysis Date	Accred	itation	Method
Cadmium , Total as Cd	<0.0006	mg/l	26/07/2022	N	Cov	WAS049
Calcium , Total as Ca	19.9	mg/l	26/07/2022	N	Cov	WAS049
Chromium , Total as Cr	0.009	mg/l	26/07/2022	N	Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	26/07/2022	N	Cov	WAS049
Iron , Total as Fe	0.70	mg/l	26/07/2022	N	Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	26/07/2022	N	Cov	WAS049
Magnesium, Total as Mg	5.6	mg/l	26/07/2022	N	Cov	WAS049
Manganese , Total as Mn	70.0	ug/l	26/07/2022	N	Cov	WAS049
Mercury, Total as Hg	<0.00020	mg/l	01/08/2022	N	Cov	WAS013
Nickel , Total as Ni	65.1	ug/l	26/07/2022	N	Cov	WAS049
Potassium , Total as K	3.84	mg/l	26/07/2022	N	Cov	WAS049
Sodium , Total as Na	6.83	mg/l	26/07/2022	N	Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	26/07/2022	N	Cov	WAS049
рН	5.8	pH units	20/07/2022	N	Cov	WAS039
Conductivity- Electrical 20C	202	uS/cm	20/07/2022	N	Cov	WAS039
Alkalinity as CaCO3	5.6	mg/l	28/07/2022	N	Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	21/07/2022	N	Cov	WAS067
Chloride as Cl	13.2	mg/l	20/07/2022	N	Cov	WAS036
Nitrite as N	<0.08	mg/l	20/07/2022	N	Cov	WAS036
Nitrate as N	7.7	mg/l	20/07/2022	N	Cov	WAS036
Sulphate as SO4	44.8	mg/l	20/07/2022	N	Cov	WAS036
Dissolved Oxygen, Fixed	7.0	mg/l	21/07/2022	N	Cov	WAS052
COD (Total)	15.0	mg/l	29/07/2022	N	Cov	WAS040

ANALYSED BY



Issue

Sample

of **5**

Report Number: COV/2346874/2022

Laboratory Number: 21843314

Enviroarm Ltd Sample Source:

Sample Point Description:

Sample Description: BH4

Sample Matrix: **Not Specified** 18 July 2022 Sample Date/Time: 19 July 2022 Sample Received: Analysis Complete: 02 August 2022

Test Description	Result	Units	Analysis Date	Accred	itation	Method
TOC (Filtered)	1.4	mg/l	20/07/2022	N	Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	27/07/2022	N	Cov	WAS018

Analyst Comments for 21843314:

This sample has been analysed for 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.

Reporting limit raised for Mercury due to sample matrix interference.

This issue replaces all previous issues

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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: R. Stocks Date: 02 August 2022

Signed: Title: **Inorganic Team Leader**

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Issue

Sample

5

of **5**

Report Number: COV/2346874/2022

Laboratory Number: 21843315

Sample Source: Enviroarm Ltd

Sample Point Description:

Sample Description: BH5

Test Description	Result	Units	Analysis Date	Accred	itation	Method
Cadmium , Total as Cd	<0.0006	mg/l	26/07/2022	N	Cov	WAS049
Calcium , Total as Ca	20.1	mg/l	26/07/2022	N	Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	26/07/2022	N	Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	26/07/2022	N	Cov	WAS049
Iron , Total as Fe	<0.23	mg/l	26/07/2022	N	Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	26/07/2022	N	Cov	WAS049
Magnesium, Total as Mg	4.9	mg/l	26/07/2022	N	Cov	WAS049
Manganese , Total as Mn	30.1	ug/l	26/07/2022	N	Cov	WAS049
Mercury, Total as Hg	<0.00020	mg/l	01/08/2022	N	Cov	WAS013
Nickel , Total as Ni	4.82	ug/l	26/07/2022	N	Cov	WAS049
Potassium , Total as K	5.29	mg/l	26/07/2022	N	Cov	WAS049
Sodium , Total as Na	25.7	mg/l	26/07/2022	N	Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	26/07/2022	N	Cov	WAS049
рН	6.1	pH units	20/07/2022	N	Cov	WAS039
Conductivity- Electrical 20C	302	uS/cm	20/07/2022	N	Cov	WAS039
Alkalinity as CaCO3	11.8	mg/l	28/07/2022	N	Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	21/07/2022	N	Cov	WAS067
Chloride as Cl	35.2	mg/l	20/07/2022	N	Cov	WAS036
Nitrite as N	<0.08	mg/l	20/07/2022	N	Cov	WAS036
Nitrate as N	8.5	mg/l	20/07/2022	N	Cov	WAS036
Sulphate as SO4	56.3	mg/l	20/07/2022	N	Cov	WAS036
Dissolved Oxygen, Fixed	7.7	mg/l	21/07/2022	N	Cov	WAS052
COD (Total)	12.0	mg/l	29/07/2022	N	Cov	WAS040

ANALYSED BY



Issue

Sample

5

of **5**

Report Number: COV/2346874/2022

Laboratory Number: 21843315

Enviroarm Ltd Sample Source:

Sample Point Description:

Sample Description: BH₅

Sample Matrix: **Not Specified** 18 July 2022 Sample Date/Time: 19 July 2022 Sample Received: Analysis Complete: 02 August 2022

Test Description	Result	Units	Analysis Date	Accreditation	n Method
TOC (Filtered)	1.3	mg/l	20/07/2022	N Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	27/07/2022	N Cov	WAS018

Analyst Comments for 21843315:

This sample has been analysed for 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.

Reporting limit raised for Mercury due to sample matrix interference.

{*/}

This issue replaces all previous issues

Signed:

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

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

Name: R. Stocks Date: 02 August 2022

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