



**ALS Environmental Ltd**  
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CV4 9GU

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[www.alsenvironmental.co.uk](http://www.alsenvironmental.co.uk)

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

01 September 2022

**Test Report: COV/2361745/2022**

Dear Mr Morris

Analysis of your sample(s) submitted on 19 August 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: P. Patel

Title: Inorganics Chemistry Manager



1314



EMS675527

OHS 542058



# Report Summary

ANALYSED BY

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



Date of Issue: **01 September 2022**

Report Number: **COV/2361745/2022**

Issue **1**

This issue replaces  
all previous issues

**Job Description:** Water Analysis

**Job Location:** Chadwich Lane

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

Job Received: **19 August 2022**

Number of Test Results  
included in this report **125**

Analysis Commenced: **20 August 2022**

Signed:

Name: **P. Patel**

Date: **01 September 2022**

Title: **Inorganics Chemistry Manager**

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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# Certificate of Analysis

ANALYSED BY



Report Number: **COV/2361745/2022**  
Laboratory Number: **21951350**  
Sample Source: **Enviroarm Ltd**  
Sample Point Description:  
Sample Description: **BH1**  
Sample Matrix: **Not Specified**  
Sample Date/Time: **18 August 2022**  
Sample Received: **19 August 2022**  
Analysis Complete: **01 September 2022**

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

Test Description	Result	Units	Analysis Date	Accreditation	Method
Cadmium , Total as Cd	<0.0006	mg/l	26/08/2022	N Cov	WAS049
Calcium , Total as Ca	35.6	mg/l	26/08/2022	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	26/08/2022	N Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	26/08/2022	N Cov	WAS049
Iron , Total as Fe	0.26	mg/l	26/08/2022	N Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	26/08/2022	N Cov	WAS049
Magnesium, Total as Mg	13.0	mg/l	31/08/2022	N Cov	WAS049
Manganese , Total as Mn	46.2	ug/l	26/08/2022	N Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	26/08/2022	N Cov	WAS013
Nickel , Total as Ni	13.1	ug/l	26/08/2022	N Cov	WAS049
Potassium , Total as K	8.13	mg/l	31/08/2022	N Cov	WAS049
Sodium , Total as Na	14.0	mg/l	31/08/2022	N Cov	WAS049
Zinc, Total as Zn	0.02	mg/l	26/08/2022	N Cov	WAS049
pH	6.3	pH units	20/08/2022	N Cov	WAS039
Conductivity- Electrical 20C	403	uS/cm	20/08/2022	N Cov	WAS039
Alkalinity as CaCO3	76.0	mg/l	24/08/2022	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	22/08/2022	N Cov	WAS067
Chloride as Cl	28.8	mg/l	22/08/2022	N Cov	WAS036
Nitrite as N	<0.08	mg/l	22/08/2022	N Cov	WAS036
Nitrate as N	5.3	mg/l	22/08/2022	N Cov	WAS036
Sulphate as SO4	55.1	mg/l	22/08/2022	N Cov	WAS036
Dissolved Oxygen, Fixed	4.6	mg/l	22/08/2022	N Cov	WAS052
COD (Total)	13.0	mg/l	25/08/2022	N Cov	WAS040

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# Certificate of Analysis

ANALYSED BY



Report Number: **COV/2361745/2022**  
Laboratory Number: **21951350**  
Sample Source: **Enviroarm Ltd**  
Sample Point Description:  
Sample Description: **BH1**  
Sample Matrix: **Not Specified**  
Sample Date/Time: **18 August 2022**  
Sample Received: **19 August 2022**  
Analysis Complete: **01 September 2022**

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

Test Description	Result	Units	Analysis Date	Accreditation	Method
TOC (Filtered)	2.8	mg/l	23/08/2022	N Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	22/08/2022	N Cov	WAS018

**Analyst Comments for 21951350:**

This sample has been analysed for 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.

Signed:

Name: **P. Patel**

Date: **01 September 2022**

Title: **Inorganics Chemistry Manager**

**ALS Environmental Ltd**

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# Certificate of Analysis

ANALYSED BY



Report Number: **COV/2361745/2022**  
Laboratory Number: **21951351**  
Sample Source: **Enviroarm Ltd**  
Sample Point Description:  
Sample Description: **BH2**  
Sample Matrix: **Not Specified**  
Sample Date/Time: **18 August 2022**  
Sample Received: **19 August 2022**  
Analysis Complete: **01 September 2022**

Issue **1**  
Sample **2** of **5**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Cadmium , Total as Cd	0.0018	mg/l	26/08/2022	N Cov	WAS049
Calcium , Total as Ca	39.2	mg/l	26/08/2022	N Cov	WAS049
Chromium , Total as Cr	0.025	mg/l	26/08/2022	N Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	26/08/2022	N Cov	WAS049
Iron , Total as Fe	2.06	mg/l	26/08/2022	N Cov	WAS049
Lead , Total as Pb	0.008	mg/l	26/08/2022	N Cov	WAS049
Magnesium, Total as Mg	18.6	mg/l	31/08/2022	N Cov	WAS049
Manganese , Total as Mn	225	ug/l	26/08/2022	N Cov	WAS049
Mercury, Total as Hg	0.00003	mg/l	26/08/2022	N Cov	WAS013
Nickel , Total as Ni	108	ug/l	26/08/2022	N Cov	WAS049
Potassium , Total as K	3.60	mg/l	31/08/2022	N Cov	WAS049
Sodium , Total as Na	10.8	mg/l	31/08/2022	N Cov	WAS049
Zinc, Total as Zn	0.107	mg/l	26/08/2022	N Cov	WAS049
pH	5.5	pH units	20/08/2022	N Cov	WAS039
Conductivity- Electrical 20C	414	uS/cm	20/08/2022	N Cov	WAS039
Alkalinity as CaCO3	4.8	mg/l	24/08/2022	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	22/08/2022	N Cov	WAS067
Chloride as Cl	28.3	mg/l	22/08/2022	N Cov	WAS036
Nitrite as N	<0.08	mg/l	22/08/2022	N Cov	WAS036
Nitrate as N	20.4	mg/l	22/08/2022	N Cov	WAS036
Sulphate as SO4	85.6	mg/l	22/08/2022	N Cov	WAS036
Dissolved Oxygen, Fixed	7.0	mg/l	22/08/2022	N Cov	WAS052
COD (Total)	21.0	mg/l	25/08/2022	N Cov	WAS040

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# Certificate of Analysis

ANALYSED BY



Report Number: **COV/2361745/2022**  
Laboratory Number: **21951351**  
Sample Source: **Enviroarm Ltd**  
Sample Point Description:  
Sample Description: **BH2**  
Sample Matrix: **Not Specified**  
Sample Date/Time: **18 August 2022**  
Sample Received: **19 August 2022**  
Analysis Complete: **01 September 2022**

Issue **1**  
Sample **2** of **5**

Test Description	Result	Units	Analysis Date	Accreditation	Method
TOC (Filtered)	1.8	mg/l	23/08/2022	N Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	22/08/2022	N Cov	WAS018

**Analyst Comments for 21951351:**

This sample has been analysed for 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.

Signed:

Name: **P. Patel**

Date: **01 September 2022**

Title: **Inorganics Chemistry Manager**

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# Certificate of Analysis

ANALYSED BY



Report Number: **COV/2361745/2022**  
Laboratory Number: **21951352**  
Sample Source: **Enviroarm Ltd**  
Sample Point Description:  
Sample Description: **BH3**  
Sample Matrix: **Not Specified**  
Sample Date/Time: **18 August 2022**  
Sample Received: **19 August 2022**  
Analysis Complete: **01 September 2022**

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

Test Description	Result	Units	Analysis Date	Accreditation	Method
Cadmium , Total as Cd	0.0008	mg/l	26/08/2022	N Cov	WAS049
Calcium , Total as Ca	51.6	mg/l	26/08/2022	N Cov	WAS049
Chromium , Total as Cr	0.048	mg/l	26/08/2022	N Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	26/08/2022	N Cov	WAS049
Iron , Total as Fe	1.93	mg/l	26/08/2022	N Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	26/08/2022	N Cov	WAS049
Magnesium, Total as Mg	13.9	mg/l	31/08/2022	N Cov	WAS049
Manganese , Total as Mn	338	ug/l	26/08/2022	N Cov	WAS049
Mercury, Total as Hg	0.00034	mg/l	26/08/2022	N Cov	WAS013
Nickel , Total as Ni	85.2	ug/l	26/08/2022	N Cov	WAS049
Potassium , Total as K	5.96	mg/l	31/08/2022	N Cov	WAS049
Sodium , Total as Na	9.28	mg/l	31/08/2022	N Cov	WAS049
Zinc, Total as Zn	0.113	mg/l	26/08/2022	N Cov	WAS049
pH	6.6	pH units	20/08/2022	N Cov	WAS039
Conductivity- Electrical 20C	600	uS/cm	20/08/2022	N Cov	WAS039
Alkalinity as CaCO3	4.6	mg/l	24/08/2022	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	22/08/2022	N Cov	WAS067
Chloride as Cl	28.1	mg/l	22/08/2022	N Cov	WAS036
Nitrite as N	<0.08	mg/l	22/08/2022	N Cov	WAS036
Nitrate as N	4.4	mg/l	22/08/2022	N Cov	WAS036
Sulphate as SO4	152	mg/l	22/08/2022	N Cov	WAS036
Dissolved Oxygen, Fixed	7.7	mg/l	22/08/2022	N Cov	WAS052
COD (Total)	29.0	mg/l	25/08/2022	N Cov	WAS040

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# Certificate of Analysis

ANALYSED BY



Report Number: **COV/2361745/2022**  
Laboratory Number: **21951352**  
Sample Source: **Enviroarm Ltd**  
Sample Point Description:  
Sample Description: **BH3**  
Sample Matrix: **Not Specified**  
Sample Date/Time: **18 August 2022**  
Sample Received: **19 August 2022**  
Analysis Complete: **01 September 2022**

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

Test Description	Result	Units	Analysis Date	Accreditation	Method
TOC (Filtered)	1.7	mg/l	23/08/2022	N Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	22/08/2022	N Cov	WAS018

**Analyst Comments for 21951352:**

This sample has been analysed for 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.

Signed:

Name: **P. Patel**

Date: **01 September 2022**

Title: **Inorganics Chemistry Manager**

**ALS Environmental Ltd**

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# Certificate of Analysis

ANALYSED BY



Report Number: **COV/2361745/2022**  
Laboratory Number: **21951353**  
Sample Source: **Enviroarm Ltd**  
Sample Point Description:  
Sample Description: **BH4**  
Sample Matrix: **Not Specified**  
Sample Date/Time: **18 August 2022**  
Sample Received: **19 August 2022**  
Analysis Complete: **01 September 2022**

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

Test Description	Result	Units	Analysis Date	Accreditation	Method
Cadmium , Total as Cd	<0.0006	mg/l	26/08/2022	N Cov	WAS049
Calcium , Total as Ca	23.0	mg/l	26/08/2022	N Cov	WAS049
Chromium , Total as Cr	0.002	mg/l	26/08/2022	N Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	26/08/2022	N Cov	WAS049
Iron , Total as Fe	1.21	mg/l	26/08/2022	N Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	26/08/2022	N Cov	WAS049
Magnesium, Total as Mg	6.3	mg/l	31/08/2022	N Cov	WAS049
Manganese , Total as Mn	111	ug/l	26/08/2022	N Cov	WAS049
Mercury, Total as Hg	0.00001	mg/l	26/08/2022	N Cov	WAS013
Nickel , Total as Ni	13.7	ug/l	26/08/2022	N Cov	WAS049
Potassium , Total as K	3.93	mg/l	31/08/2022	N Cov	WAS049
Sodium , Total as Na	6.96	mg/l	31/08/2022	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	26/08/2022	N Cov	WAS049
pH	5.7	pH units	20/08/2022	N Cov	WAS039
Conductivity- Electrical 20C	211	uS/cm	27/08/2022	N Cov	WAS039
Alkalinity as CaCO3	7.2	mg/l	24/08/2022	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	22/08/2022	N Cov	WAS067
Chloride as Cl	11.9	mg/l	22/08/2022	N Cov	WAS036
Nitrite as N	<0.08	mg/l	22/08/2022	N Cov	WAS036
Nitrate as N	7.1	mg/l	22/08/2022	N Cov	WAS036
Sulphate as SO4	48.0	mg/l	22/08/2022	N Cov	WAS036
Dissolved Oxygen, Fixed	8.5	mg/l	22/08/2022	N Cov	WAS052
COD (Total)	15.0	mg/l	25/08/2022	N Cov	WAS040

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# Certificate of Analysis

ANALYSED BY



Report Number: **COV/2361745/2022**  
Laboratory Number: **21951353**  
Sample Source: **Enviroarm Ltd**  
Sample Point Description:  
Sample Description: **BH4**  
Sample Matrix: **Not Specified**  
Sample Date/Time: **18 August 2022**  
Sample Received: **19 August 2022**  
Analysis Complete: **01 September 2022**

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

Test Description	Result	Units	Analysis Date	Accreditation	Method
TOC (Filtered)	1.2	mg/l	23/08/2022	N Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	22/08/2022	N Cov	WAS018

**Analyst Comments for 21951353:**

This sample has been analysed for 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.

Signed:

Name: **P. Patel**

Date: **01 September 2022**

Title: **Inorganics Chemistry Manager**

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# Certificate of Analysis

ANALYSED BY



Report Number: **COV/2361745/2022**  
Laboratory Number: **21951354**  
Sample Source: **Enviroarm Ltd**  
Sample Point Description:  
Sample Description: **BH5**  
Sample Matrix: **Not Specified**  
Sample Date/Time: **18 August 2022**  
Sample Received: **19 August 2022**  
Analysis Complete: **01 September 2022**

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

Test Description	Result	Units	Analysis Date	Accreditation	Method
Cadmium , Total as Cd	<0.0006	mg/l	26/08/2022	N Cov	WAS049
Calcium , Total as Ca	21.4	mg/l	26/08/2022	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	26/08/2022	N Cov	WAS049
Copper, Total as Cu	<0.009	mg/l	26/08/2022	N Cov	WAS049
Iron , Total as Fe	<0.23	mg/l	26/08/2022	N Cov	WAS049
Lead , Total as Pb	<0.006	mg/l	26/08/2022	N Cov	WAS049
Magnesium, Total as Mg	4.9	mg/l	31/08/2022	N Cov	WAS049
Manganese , Total as Mn	26.7	ug/l	26/08/2022	N Cov	WAS049
Mercury, Total as Hg	<0.00001	mg/l	26/08/2022	N Cov	WAS013
Nickel , Total as Ni	3.20	ug/l	26/08/2022	N Cov	WAS049
Potassium , Total as K	5.06	mg/l	31/08/2022	N Cov	WAS049
Sodium , Total as Na	26.0	mg/l	26/08/2022	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	26/08/2022	N Cov	WAS049
pH	6.1	pH units	20/08/2022	N Cov	WAS039
Conductivity- Electrical 20C	299	uS/cm	20/08/2022	N Cov	WAS039
Alkalinity as CaCO3	11.6	mg/l	24/08/2022	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	22/08/2022	N Cov	WAS067
Chloride as Cl	33.6	mg/l	22/08/2022	N Cov	WAS036
Nitrite as N	<0.08	mg/l	22/08/2022	N Cov	WAS036
Nitrate as N	8.2	mg/l	22/08/2022	N Cov	WAS036
Sulphate as SO4	53.4	mg/l	22/08/2022	N Cov	WAS036
Dissolved Oxygen, Fixed	9.2	mg/l	22/08/2022	N Cov	WAS052
COD (Total)	<11.0	mg/l	25/08/2022	N Cov	WAS040

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# Certificate of Analysis

ANALYSED BY



Report Number: **COV/2361745/2022**  
Laboratory Number: **21951354**  
Sample Source: **Enviroarm Ltd**  
Sample Point Description:  
Sample Description: **BH5**  
Sample Matrix: **Not Specified**  
Sample Date/Time: **18 August 2022**  
Sample Received: **19 August 2022**  
Analysis Complete: **01 September 2022**

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

Test Description	Result	Units	Analysis Date	Accreditation	Method
TOC (Filtered)	1.1	mg/l	23/08/2022	N Cov	WAS005
Cyanide, Total as CN	<0.009	mg/l	22/08/2022	N Cov	WAS018

**Analyst Comments for 21951354:**

This sample has been analysed for 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.

Signed:

Name: **P. Patel**

Date: **01 September 2022**

Title: **Inorganics Chemistry Manager**

**ALS Environmental Ltd**

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