

**ALS Environmental Ltd**  
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[www.alsenvironmental.co.uk](http://www.alsenvironmental.co.uk)

**Mr Lloyd**  
**Caerphilly County B.C.**  
**Caerphilly County Borough**  
**Council**  
**Unit B5**  
**Tiryberth Depot**  
**Hengoed CF82 8AU**  
**Caerphilly**

01 March 2018

**Test Report: COV/1511514/2018**

Dear Mr Lloyd

Analysis of your sample(s) submitted on 21 February 2018 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,

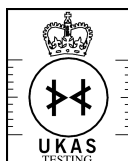
Signed: 

Name: R. Stocks

Title: Inorganic Team Leader



# Report Summary



1314  
0897  
4409



**Mr Rhodri Lloyd  
Caerphilly County B.C.  
Caerphilly County Borough  
Council  
Unit B5  
Tiryberth Depot  
Hengoed  
Caerphilly**

Date of Issue: **01 March 2018**

Report Number: **COV/1511514/2018**

Issue **1**

This issue replaces  
all previous issues

**Job Description:** Trehir Landfill Site

**Job Location:** Caerphilly

Number of Samples  
included in this report **21**

Job Received: **21 February 2018**

Number of Test Results  
included in this report **157**

Analysis Commenced: **21 February 2018**

Signed: 

Name: **R. Stocks**

Date: **01 March 2018**

Title: **Inorganic Team Leader**

ALS Environmental Ltd was responsible for sampling.

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

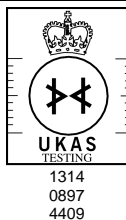
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

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

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



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875359**

Sample **1** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **03**

Sample Description: **03**

Sample Matrix: **Land Leachate**

Sample Date/Time: **21 February 2018 11:20**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	16.5	Deg C	21/02/2018	N Cov	FIELD
pH	7.4	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	2120	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	104	mg/l	21/02/2018	Y Cov	WAS055
BOD + ATU (5 day)	4	mg/l	27/02/2018	Y Cov	WAS001
COD (Total)	136	mg/l	27/02/2018	Y Cov	WAS040
Chloride as Cl, High Level	166	mg/l	21/02/2018	Y Cov	WAS036

**Analyst Comments for 16875359:**

{/\*}Ammonia analysed by colorimetric analysis.{\*/}

This issue replaces all previous issues

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

Analysed at: CHE = Chester(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

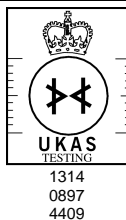
Date: **01 March 2018**

Title: **Inorganic Team Leader**

**ALS Environmental Ltd**

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

# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875360**

Sample **2** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **08**

Sample Description: **08**

Sample Matrix: **Land Leachate**

Sample Date/Time: **21 February 2018 09:56**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.6	Deg C	21/02/2018	N Cov	FIELD
pH	8.3	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	1620	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	66.5	mg/l	21/02/2018	Y Cov	WAS055
BOD + ATU (5 day)	10	mg/l	27/02/2018	Y Cov	WAS001
COD (Total)	93.0	mg/l	27/02/2018	Y Cov	WAS040
Chloride as Cl, High Level	131	mg/l	21/02/2018	Y Cov	WAS036

**Analyst Comments for 16875360:**

{/\*}Ammonia analysed by colorimetric analysis.{\*/}

This issue replaces all previous issues

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

Analysed at: CHE = Chester(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

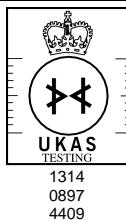
Date: **01 March 2018**

Title: **Inorganic Team Leader**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875361**

Sample **3** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **MHL28**

Sample Description: **MHL28**

Sample Matrix: **Land Leachate**

Sample Date/Time: **21 February 2018 10:34**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	14.1	Deg C	21/02/2018	N Cov	FIELD
pH	7.8	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	2240	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	115	mg/l	21/02/2018	Y Cov	WAS055
BOD + ATU (5 day)	4	mg/l	27/02/2018	Y Cov	WAS001
COD (Total)	139	mg/l	27/02/2018	Y Cov	WAS040
Chloride as Cl, High Level	176	mg/l	21/02/2018	Y Cov	WAS036

**Analyst Comments for 16875361:**

{/\*}Ammonia analysed by colorimetric analysis.{\*/}

This issue replaces all previous issues

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

Analysed at: CHE = Chester(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

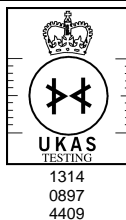
Date: **01 March 2018**

Title: **Inorganic Team Leader**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875362**

Sample **4** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **N2**

Sample Description: **N2**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 09:40**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.6	Deg C	21/02/2018	N Cov	FIELD
pH	6.6	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	186	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	8.8	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	4.0	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	<11.0	mg/l	27/02/2018	Y Cov	WAS040
Water Level to top of Casing	5.87	m	21/02/2018	N Cov	COM05

**Analyst Comments for 16875362:**

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

Date: **01 March 2018**

Title: **Inorganic Team Leader**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875363**

Sample **5** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **N5**

Sample Description: **N5**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 12:43**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.6	Deg C	21/02/2018	N Cov	FIELD
pH	7.0	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	1000	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	1.35	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	142	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	4.2	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	135	mg/l	27/02/2018	Y Cov	WAS040
Water Level to top of Casing	4.36	m	21/02/2018	N Cov	COM05

Analyst Comments for 16875363:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

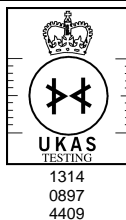
Date: **01 March 2018**

Title: **Inorganic Team Leader**

**ALS Environmental Ltd**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875364**

Sample **6** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **N6**

Sample Description: **N6**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 12:35**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.6	Deg C	21/02/2018	N Cov	FIELD
pH	6.8	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	962	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	17.6	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	60.6	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	0.8	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	40.0	mg/l	27/02/2018	Y Cov	WAS040
Water Level to top of Casing	0.00	m	21/02/2018	N Cov	COM05

Analyst Comments for 16875364:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

Date: **01 March 2018**

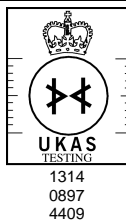
Title: **Inorganic Team Leader**

**ALS Environmental Ltd**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875365**

Sample **7** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **N8**

Sample Description: **N8**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 13:25**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.7	Deg C	21/02/2018	N Cov	FIELD
pH	7.9	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	874	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	210	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	2.4	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	36.0	mg/l	27/02/2018	Y Cov	WAS040
Water Level to top of Casing	2.22	m	21/02/2018	N Cov	COM05

Analyst Comments for 16875365:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

Date: **01 March 2018**

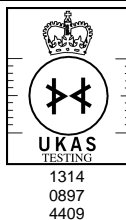
Title: **Inorganic Team Leader**

**ALS Environmental Ltd**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875366**

Sample **8** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **NBH1**

Sample Description: **NBH1**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 12:03**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	14.0	Deg C	21/02/2018	N Cov	FIELD
pH	7.9	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	1610	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	28.4	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	231	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	<0.5	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	362	mg/l	27/02/2018	Y Cov	WAS040
Water Level to top of Casing	3.35	m	21/02/2018	N Cov	COM05

Analyst Comments for 16875366:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

Date: **01 March 2018**

Title: **Inorganic Team Leader**

**ALS Environmental Ltd**

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

# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875367**

Sample **9** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **NBH2**

Sample Description: **NBH2**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 11:25**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	13.5	Deg C	21/02/2018	N Cov	FIELD
pH	7.8	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	1960	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	87.9	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	107	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	2.2	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	159	mg/l	27/02/2018	Y Cov	WAS040
Water Level to top of Casing	2.65	m	21/02/2018	N Cov	COM05

Analyst Comments for 16875367:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

Date: **01 March 2018**

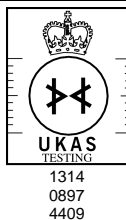
Title: **Inorganic Team Leader**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875368**

Sample **10** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **NBH3**

Sample Description: **NBH3**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 11:08**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	11.4	Deg C	21/02/2018	N Cov	FIELD
pH	6.8	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	1120	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	16.5	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	47.8	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	1.3	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	50.0	mg/l	27/02/2018	Y Cov	WAS040
Water Level to top of Casing	5.85	m	21/02/2018	N Cov	COM05

Analyst Comments for 16875368:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

Date: **01 March 2018**

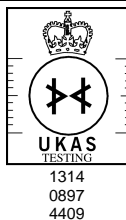
Title: **Inorganic Team Leader**

**ALS Environmental Ltd**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875369**

Sample **11** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **NBH4**

Sample Description: **NBH4**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 10:30**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation		Method
Field Temperature	13.0	Deg C	21/02/2018	N	Cov	FIELD
pH	6.6	pH units	22/02/2018	Y	Cov	WAS039
Conductivity- Electrical 20C	604	uS/cm	22/02/2018	Y	Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/02/2018	N	Cov	WAS036
Chloride as Cl	11.3	mg/l	22/02/2018	N	Cov	WAS036
Dissolved Oxygen, Fixed	4.8	mg/l	22/02/2018	Y	Cov	WAS052
COD (Total)	30.0	mg/l	27/02/2018	Y	Cov	WAS040
Water Level to top of Casing	16.85	m	21/02/2018	N	Cov	COM05

Analyst Comments for 16875369:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

Date: **01 March 2018**

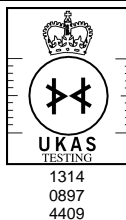
Title: **Inorganic Team Leader**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875370**

Sample **12** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **NBH5**

Sample Description: **NBH5**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 09:35**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.0	Deg C	21/02/2018	N Cov	FIELD
pH	6.6	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	569	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	0.61	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	20.3	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	2.5	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	28.0	mg/l	27/02/2018	Y Cov	WAS040
Water Level to top of Casing	6.05	m	21/02/2018	N Cov	COM05

**Analyst Comments for 16875370:**

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

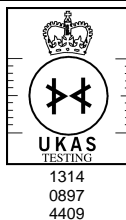
Date: **01 March 2018**

Title: **Inorganic Team Leader**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875371**

Sample **13** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **NBH6**

Sample Description: **NBH6**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 09:53**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.6	Deg C	21/02/2018	N Cov	FIELD
pH	6.6	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	167	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	17.6	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	5.9	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	20.0	mg/l	27/02/2018	Y Cov	WAS040
Water Level to top of Casing	10.9	m	27/02/2018	N Cov	COM05

Analyst Comments for 16875371:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

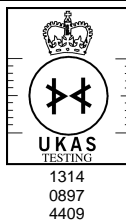
Date: **01 March 2018**

Title: **Inorganic Team Leader**

**ALS Environmental Ltd**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875372**

Sample **14** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **W1**

Sample Description: **W1**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 09:10**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	7.2	Deg C	21/02/2018	N Cov	FIELD
pH	8.0	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	371	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	19.3	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	11.4	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	<11.0	mg/l	27/02/2018	Y Cov	WAS040

Analyst Comments for 16875372:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

Date: **01 March 2018**

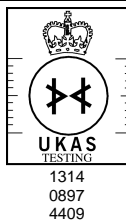
Title: **Inorganic Team Leader**

**ALS Environmental Ltd**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875373**

Sample **15** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **W2**

Sample Description: **W2**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 09:15**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	7.1	Deg C	21/02/2018	N Cov	FIELD
pH	7.9	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	371	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	18.6	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	11.8	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	<11.0	mg/l	27/02/2018	Y Cov	WAS040

Analyst Comments for 16875373:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

Date: **01 March 2018**

Title: **Inorganic Team Leader**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875374**

Sample **16** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **W3**

Sample Description: **W3**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 09:22**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	7.4	Deg C	21/02/2018	N Cov	FIELD
pH	7.9	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	371	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	18.6	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	11.2	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	<11.0	mg/l	27/02/2018	Y Cov	WAS040

Analyst Comments for 16875374:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

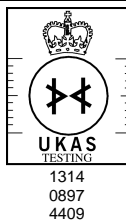
Date: **01 March 2018**

Title: **Inorganic Team Leader**

**ALS Environmental Ltd**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875375**

Sample **17** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **W5**

Sample Description: **W5**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 10:15**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	8.8	Deg C	21/02/2018	N Cov	FIELD
pH	7.4	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	128	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	14.5	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	11.0	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	<11.0	mg/l	27/02/2018	Y Cov	WAS040

Analyst Comments for 16875375:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

Date: **01 March 2018**

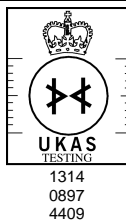
Title: **Inorganic Team Leader**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875376**

Sample **18** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **Groundwater Sump**

Sample Description: **Sump**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 12:58**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	9.6	Deg C	21/02/2018	N Cov	FIELD
pH	7.1	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	1170	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	15.0	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	128	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	6.6	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	53.0	mg/l	27/02/2018	Y Cov	WAS040

Analyst Comments for 16875376:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

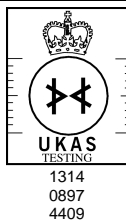
Date: **01 March 2018**

Title: **Inorganic Team Leader**

**ALS Environmental Ltd**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875377**

Sample **19** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **Land Drain 1**

Sample Description: **Land Drain 1a**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 09:40**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	12.5	Deg C	21/02/2018	N Cov	FIELD
pH	8.0	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	2190	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	106	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	175	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	5.7	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	136	mg/l	27/02/2018	Y Cov	WAS040

Analyst Comments for 16875377:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

Date: **01 March 2018**

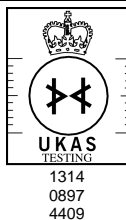
Title: **Inorganic Team Leader**

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# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875378**

Sample **20** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **Land Drain 1b**

Sample Description: **Land Drain 1b**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 09:42**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	8.9	Deg C	21/02/2018	N Cov	FIELD
pH	7.4	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	866	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	11.9	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	73.0	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	7.2	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	39.0	mg/l	27/02/2018	Y Cov	WAS040

Analyst Comments for 16875378:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

Date: **01 March 2018**

Title: **Inorganic Team Leader**

**ALS Environmental Ltd**

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Page 21 of 24

# Certificate of Analysis



Report Number: **COV/1511514/2018**

Issue **1**

Laboratory Number: **16875379**

Sample **21** of **21**

Sample Source: **Caerphilly County B.C.**

Sample Point Description: **Land Drain 2**

Sample Description: **Land Drain 2**

Sample Matrix: **Ground Water**

Sample Date/Time: **21 February 2018 10:06**

Sample Received: **21 February 2018**

Analysis Complete: **01 March 2018**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	6.9	Deg C	21/02/2018	N Cov	FIELD
pH	7.9	pH units	22/02/2018	Y Cov	WAS039
Conductivity- Electrical 20C	745	uS/cm	22/02/2018	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	22/02/2018	N Cov	WAS036
Chloride as Cl	59.1	mg/l	22/02/2018	N Cov	WAS036
Dissolved Oxygen, Fixed	11.5	mg/l	22/02/2018	Y Cov	WAS052
COD (Total)	27.0	mg/l	27/02/2018	Y Cov	WAS040

Analyst Comments for 16875379:

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(CH4 9EP), CTD = Coatbridge(ML5 4FR), COV = Coventry(CV4 9GU), OTT = Otterbourne(SO21 2SW), 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: **R. Stocks**

Date: **01 March 2018**

Title: **Inorganic Team Leader**

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# ANALYST COMMENTS FOR REPORT COV/1511514/2018

**Issue 1**

This issue replaces all previous issues

Date of Issue: **01 March 2018**

Sample No	Analysis Comments
16875359	{/*}Ammonia analysed by colorimetric analysis.{*/}
16875360	{/*}Ammonia analysed by colorimetric analysis.{*/}
16875361	{/*}Ammonia analysed by colorimetric analysis.{*/}
16875362	
16875363	
16875364	
16875365	
16875366	
16875367	
16875368	
16875369	
16875370	
16875371	
16875372	
16875373	
16875374	
16875375	
16875376	
16875377	
16875378	
16875379	

Signed: 

Name: **R. Stocks**

Date: **01 March 2018**

Title: **Inorganic Team Leader**


**DETERMINAND COMMENTS FOR REPORT COV/1511514/2018**

**Date of Issue: 01 March 2018**

**ISSUE 1**

This issue replaces  
all previous issues

Sample No	Description	Determinand	Comments

Signed: 	Name: <b>R. Stocks</b>	Date: <b>01 March 2018</b>
	Title: <b>Inorganic Team Leader</b>	