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

29 November 2016

Test Report: COV/1337838/2016

Dear Mr Lloyd

Analysis of your sample(s) submitted on 18 November 2016 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,

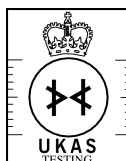
Signed: 

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: **29 November 2016**

Report Number: **COV/1337838/2016**

Issue **1**

Job Description: Trehir Landfill Site

Job Location: Caerphilly

Number of Samples
included in this report **18**

Job Received: **18 November 2016**

Number of Test Results
included in this report **134**

Analysis Commenced: **19 November 2016**

Signed: 

Name: **R. Stocks**

Date: **29 November 2016**

Title: **Inorganic Team Leader**

ALS Environmental Ltd was responsible for sampling. Sampling is not covered by our UKAS accreditation.

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/1337838/2016**

Issue **1**

Laboratory Number: **15696848**

Sample **1** of **18**

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

Sample Point Description: **08**

Sample Description: **08**

Sample Matrix: **Land Leachate**

Sample Date/Time: **18 November 2016 09:20**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.9	Deg C	19/11/2016	N Cov	FIELD
pH	7.9	pH units	21/11/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1140	uS/cm	21/11/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	15.9	mg/l	22/11/2016	Y Cov	WAS036
BOD + ATU (5 day)	5	mg/l	29/11/2016	Y Cov	WAS001
COD (Total)	77.0	mg/l	23/11/2016	Y Cov	WAS040
Chloride as Cl, High Level	104	mg/l	23/11/2016	Y Cov	WAS036

Analyst Comments for 15696848:

{/*}Ammonia analysed by colorimetric method{*/}

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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

Signed:

Name: **R. Stocks**

Date: **29 November 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696849**

Sample **2** of **18**

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

Sample Point Description: **MHL28**

Sample Description: **MHL28**

Sample Matrix: **Land Leachate**

Sample Date/Time: **18 November 2016 10:05**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	11.0	Deg C	19/11/2016	N Cov	FIELD
pH	8.0	pH units	21/11/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1610	uS/cm	21/11/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	56.1	mg/l	23/11/2016	Y Cov	WAS055
BOD + ATU (5 day)	7	mg/l	29/11/2016	Y Cov	WAS001
COD (Total)	98.0	mg/l	23/11/2016	Y Cov	WAS040
Chloride as Cl, High Level	105	mg/l	23/11/2016	Y Cov	WAS036

Analyst Comments for 15696849:

{/*}Ammonia analysed by colorimetric method{*/}

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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Signed:

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Date: **29 November 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696850**

Sample **3** of **18**

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

Sample Point Description: **N2**

Sample Description: **N2**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 11:55**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	11.3	Deg C	19/11/2016	N Cov	FIELD
pH	6.5	pH units	21/11/2016	Y Cov	WAS039
Conductivity- Electrical 20C	145	uS/cm	21/11/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	23/11/2016	N Cov	WAS036
Chloride as Cl	8.6	mg/l	23/11/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	5.3	mg/l	21/11/2016	Y Cov	WAS052
COD (Total)	41.0	mg/l	23/11/2016	Y Cov	WAS040
Water Level to top of Casing	7.03	m	21/11/2016	N Cov	IN SITU M

Analyst Comments for 15696850:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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Signed:

Name: **R. Stocks**

Date: **29 November 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696851**

Sample **4** of **18**

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

Sample Point Description: **N5**

Sample Description: **N5**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 10:20**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation		Method
Field Temperature	10.7	Deg C	19/11/2016	N	Cov	FIELD
pH	7.2	pH units	21/11/2016	Y	Cov	WAS039
Conductivity- Electrical 20C	1370	uS/cm	21/11/2016	Y	Cov	WAS039
Ammoniacal Nitrogen as N	2.18	mg/l	23/11/2016	N	Cov	WAS036
Chloride as Cl	223	mg/l	23/11/2016	N	Cov	WAS036
Dissolved Oxygen, Fixed	0.5	mg/l	21/11/2016	Y	Cov	WAS052
COD (Total)	113	mg/l	23/11/2016	Y	Cov	WAS040
Water Level to top of Casing	7.90	m	21/11/2016	N	Cov	IN SITU M

Analyst Comments for 15696851:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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Signed:

Name: **R. Stocks**

Date: **29 November 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696852**

Sample **5** of **18**

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

Sample Point Description: **N6**

Sample Description: **N6**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 10:15**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation		Method
Field Temperature	11.9	Deg C	19/11/2016	N	Cov	FIELD
pH	7.0	pH units	21/11/2016	Y	Cov	WAS039
Conductivity- Electrical 20C	962	uS/cm	21/11/2016	Y	Cov	WAS039
Ammoniacal Nitrogen as N	21.4	mg/l	23/11/2016	N	Cov	WAS036
Chloride as Cl	60.5	mg/l	23/11/2016	N	Cov	WAS036
Dissolved Oxygen, Fixed	0.5	mg/l	21/11/2016	Y	Cov	WAS052
COD (Total)	71.0	mg/l	23/11/2016	Y	Cov	WAS040
Water Level to top of Casing	0.00	m	21/11/2016	N	Cov	IN SITU M

Analyst Comments for 15696852:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

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

Signed:

Name: **R. Stocks**

Date: **29 November 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696853**

Sample **6** of **18**

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

Sample Point Description: **N8**

Sample Description: **N8**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 09:45**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation		Method
Field Temperature	9.3	Deg C	19/11/2016	N	Cov	FIELD
pH	7.3	pH units	21/11/2016	Y	Cov	WAS039
Conductivity- Electrical 20C	848	uS/cm	21/11/2016	Y	Cov	WAS039
Ammoniacal Nitrogen as N	1.14	mg/l	23/11/2016	N	Cov	WAS036
Chloride as Cl	186	mg/l	23/11/2016	N	Cov	WAS036
Dissolved Oxygen, Fixed	2.1	mg/l	21/11/2016	Y	Cov	WAS052
COD (Total)	54.0	mg/l	23/11/2016	Y	Cov	WAS040
Water Level to top of Casing	2.96	m	21/11/2016	N	Cov	IN SITU M

Analyst Comments for 15696853:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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

Signed:

Name: **R. Stocks**

Date: **29 November 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696854**

Sample **7** of **18**

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

Sample Point Description: **NBH1**

Sample Description: **NBH1**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 10:40**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	10.7	Deg C	19/11/2016	N Cov	FIELD
pH	7.3	pH units	21/11/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1720	uS/cm	21/11/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	28.6	mg/l	23/11/2016	N Cov	WAS036
Chloride as Cl	162	mg/l	23/11/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	0.8	mg/l	21/11/2016	Y Cov	WAS052
COD (Total)	170	mg/l	23/11/2016	Y Cov	WAS040
Water Level to top of Casing	2.51	m	21/11/2016	N Cov	IN SITU M

Analyst Comments for 15696854:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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Signed:

Name: **R. Stocks**

Date: **29 November 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696855**

Sample **8** of **18**

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

Sample Point Description: **NBH3**

Sample Description: **NBH3**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 11:15**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation		Method
Field Temperature	9.3	Deg C	19/11/2016	N	Cov	FIELD
pH	6.8	pH units	21/11/2016	Y	Cov	WAS039
Conductivity- Electrical 20C	1170	uS/cm	21/11/2016	Y	Cov	WAS039
Ammoniacal Nitrogen as N	15.7	mg/l	23/11/2016	N	Cov	WAS036
Chloride as Cl	42.3	mg/l	23/11/2016	N	Cov	WAS036
Dissolved Oxygen, Fixed	0.9	mg/l	21/11/2016	Y	Cov	WAS052
COD (Total)	150	mg/l	23/11/2016	Y	Cov	WAS040
Water Level to top of Casing	5.94	m	21/11/2016	N	Cov	IN SITU M

Analyst Comments for 15696855:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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Signed:

Name: **R. Stocks**

Date: **29 November 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696856**

Sample **9** of **18**

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

Sample Point Description: **NBH4**

Sample Description: **NBH4**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 11:31**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation		Method
Field Temperature	10.6	Deg C	19/11/2016	N	Cov	FIELD
pH	6.4	pH units	21/11/2016	Y	Cov	WAS039
Conductivity- Electrical 20C	482	uS/cm	21/11/2016	Y	Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	23/11/2016	N	Cov	WAS036
Chloride as Cl	10.9	mg/l	23/11/2016	N	Cov	WAS036
Dissolved Oxygen, Fixed	5.9	mg/l	21/11/2016	Y	Cov	WAS052
COD (Total)	238	mg/l	23/11/2016	Y	Cov	WAS040
Water Level to top of Casing	15.53	m	21/11/2016	N	Cov	IN SITU M

Analyst Comments for 15696856:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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Signed:

Name: **R. Stocks**

Date: **29 November 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696857**

Sample **10** of **18**

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

Sample Point Description: **NBH5**

Sample Description: **NBH5**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 12:25**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation		Method
Field Temperature	10.7	Deg C	19/11/2016	N	Cov	FIELD
pH	6.3	pH units	21/11/2016	Y	Cov	WAS039
Conductivity- Electrical 20C	529	uS/cm	21/11/2016	Y	Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	23/11/2016	N	Cov	WAS036
Chloride as Cl	20.6	mg/l	23/11/2016	N	Cov	WAS036
Dissolved Oxygen, Fixed	1.8	mg/l	21/11/2016	Y	Cov	WAS052
COD (Total)	74.0	mg/l	23/11/2016	Y	Cov	WAS040
Water Level to top of Casing	6.10	m	21/11/2016	N	Cov	IN SITU M

Analyst Comments for 15696857:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

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Date: **29 November 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696858**

Sample **11** of **18**

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

Sample Point Description: **W1**

Sample Description: **W1**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 09:06**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	7.3	Deg C	19/11/2016	N Cov	FIELD
pH	8.0	pH units	21/11/2016	Y Cov	WAS039
Conductivity- Electrical 20C	262	uS/cm	21/11/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	23/11/2016	N Cov	WAS036
Chloride as Cl	14.9	mg/l	23/11/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	11.1	mg/l	21/11/2016	Y Cov	WAS052
COD (Total)	36.0	mg/l	23/11/2016	Y Cov	WAS040

Analyst Comments for 15696858:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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Date: **29 November 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696859**

Sample **12** of **18**

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

Sample Point Description: **W2**

Sample Description: **W2**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 09:05**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	7.4	Deg C	19/11/2016	N Cov	FIELD
pH	8.0	pH units	21/11/2016	Y Cov	WAS039
Conductivity- Electrical 20C	261	uS/cm	21/11/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	23/11/2016	N Cov	WAS036
Chloride as Cl	14.2	mg/l	23/11/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	9.2	mg/l	21/11/2016	Y Cov	WAS052
COD (Total)	22.0	mg/l	23/11/2016	Y Cov	WAS040

Analyst Comments for 15696859:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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

Signed:

Name: **R. Stocks**

Date: **29 November 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696860**

Sample **13** of **18**

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

Sample Point Description: **W3**

Sample Description: **W3**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 09:00**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	7.1	Deg C	19/11/2016	N Cov	FIELD
pH	7.9	pH units	21/11/2016	Y Cov	WAS039
Conductivity- Electrical 20C	261	uS/cm	21/11/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	23/11/2016	N Cov	WAS036
Chloride as Cl	14.5	mg/l	23/11/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	9.7	mg/l	21/11/2016	Y Cov	WAS052
COD (Total)	21.0	mg/l	23/11/2016	Y Cov	WAS040

Analyst Comments for 15696860:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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

Signed:

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Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696861**

Sample **14** of **18**

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

Sample Point Description: **W5**

Sample Description: **W5**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 11:28**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	9.9	Deg C	19/11/2016	N Cov	FIELD
pH	7.7	pH units	21/11/2016	Y Cov	WAS039
Conductivity- Electrical 20C	126	uS/cm	21/11/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	23/11/2016	N Cov	WAS036
Chloride as Cl	11.7	mg/l	23/11/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	10.8	mg/l	21/11/2016	Y Cov	WAS052
COD (Total)	15.0	mg/l	23/11/2016	Y Cov	WAS040

Analyst Comments for 15696861:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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

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Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696862**

Sample **15** of **18**

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

Sample Point Description: **Groundwater Sump**

Sample Description: **SUMP**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 10:00**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	11.1	Deg C	19/11/2016	N Cov	FIELD
pH	7.2	pH units	21/11/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1320	uS/cm	21/11/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	9.14	mg/l	23/11/2016	N Cov	WAS036
Chloride as Cl	147	mg/l	23/11/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	4.7	mg/l	21/11/2016	Y Cov	WAS052
COD (Total)	464	mg/l	23/11/2016	Y Cov	WAS040

Analyst Comments for 15696862:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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

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Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696863**

Sample **16** of **18**

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

Sample Point Description: **Land Drain 1**

Sample Description: **LAND DRAIN 1a**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 09:11**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	9.5	Deg C	19/11/2016	N Cov	FIELD
pH	8.0	pH units	21/11/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1560	uS/cm	21/11/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	48.0	mg/l	23/11/2016	N Cov	WAS036
Chloride as Cl	101	mg/l	23/11/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	4.0	mg/l	21/11/2016	Y Cov	WAS052
COD (Total)	86.0	mg/l	23/11/2016	Y Cov	WAS040

Analyst Comments for 15696863:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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

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Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696864**

Sample **17** of **18**

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

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

Sample Description: **LAND DRAIN 1b**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 09:13**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	9.5	Deg C	19/11/2016	N Cov	FIELD
pH	7.4	pH units	21/11/2016	Y Cov	WAS039
Conductivity- Electrical 20C	720	uS/cm	21/11/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	4.26	mg/l	23/11/2016	N Cov	WAS036
Chloride as Cl	62.9	mg/l	23/11/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	6.0	mg/l	21/11/2016	Y Cov	WAS052
COD (Total)	32.0	mg/l	23/11/2016	Y Cov	WAS040

Analyst Comments for 15696864:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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

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Report Number: **COV/1337838/2016**

Issue **1**

Laboratory Number: **15696865**

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

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

Sample Point Description: **Land Drain 2**

Sample Description: **LAND DRAIN 2**

Sample Matrix: **Ground Water**

Sample Date/Time: **18 November 2016 09:16**

Sample Received: **18 November 2016**

Analysis Complete: **29 November 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	9.6	Deg C	19/11/2016	N Cov	FIELD
pH	8.2	pH units	21/11/2016	Y Cov	WAS039
Conductivity- Electrical 20C	805	uS/cm	21/11/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	<0.41	mg/l	23/11/2016	N Cov	WAS036
Chloride as Cl	94.9	mg/l	23/11/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	9.0	mg/l	21/11/2016	Y Cov	WAS052
COD (Total)	23.0	mg/l	23/11/2016	Y Cov	WAS040

Analyst Comments for 15696865:

No Analyst Comment

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

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), 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. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

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Date: **29 November 2016**

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ANALYST COMMENTS FOR REPORT

COV/1337838/2016

Issue 1

Date of Issue: 29 November 2016

Sample No	Analysis Comments
15696848	{/*}Ammonia analysed by colorimetric method{*/}
15696849	{/*}Ammonia analysed by colorimetric method{*/}
15696850	
15696851	
15696852	
15696853	
15696854	
15696855	
15696856	
15696857	
15696858	
15696859	
15696860	
15696861	
15696862	
15696863	
15696864	
15696865	

Signed: 

Name: **R. Stocks**

Date: **29 November 2016**

Title: **Inorganic Team Leader**

DETERMINAND COMMENTS FOR REPORT COV/1337838/2016

ISSUE 1

Date of Issue : 29 November 2016

Sample No	Description	Determinand	Comments

Signed:



Name: R. Stocks

Date: 29 November 2016

Title: Inorganic Team Leader