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

03 August 2016

Test Report: COV/1300720/2016

Dear Mr Lloyd

Analysis of your sample(s) submitted on 19 July 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:

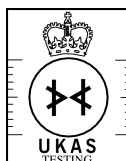


Name: D. Hoffman

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: **03 August 2016**

Report Number: **COV/1300720/2016**

Issue **1**

Job Description: Trehir Landfill Site

Job Location: Caerphilly

Number of Samples
included in this report **17**

Job Received: **19 July 2016**

Number of Test Results
included in this report **127**

Analysis Commenced: **20 July 2016**

Signed:

Name: **D. Hoffman**

Date: **03 August 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/1300720/2016**

Issue **1**

Laboratory Number: **15431918**

Sample **1** of **17**

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

Sample Point Description: **08**

Sample Description: **08**

Sample Matrix: **Land Leachate**

Sample Date/Time: **19 July 2016 12:50**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	15.5	Deg C	20/07/2016	N Cov	FIELD
pH	7.1	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	2210	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	4.16	mg/l	22/07/2016	Y Cov	WAS036
BOD + ATU (5 day)	7	mg/l	28/07/2016	Y Cov	WAS001
COD (Total)	141	mg/l	25/07/2016	Y Cov	WAS040
Chloride as Cl, High Level	223	mg/l	26/07/2016	Y Cov	WAS036

Analyst Comments for 15431918:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised. {/*}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: **D. Hoffman**

Date: **03 August 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431919**

Sample **2** of **17**

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

Sample Point Description: **MHL28**

Sample Description: **MHL28**

Sample Matrix: **Land Leachate**

Sample Date/Time: **19 July 2016 12:20**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	14.1	Deg C	20/07/2016	N Cov	FIELD
pH	7.3	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	3560	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	198	mg/l	26/07/2016	Y Cov	WAS055
BOD + ATU (5 day)	22	mg/l	28/07/2016	Y Cov	WAS001
COD (Total)	265	mg/l	25/07/2016	Y Cov	WAS040
Chloride as Cl, High Level	337	mg/l	26/07/2016	Y Cov	WAS036

Analyst Comments for 15431919:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised. {(*)}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).

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

Signed:

Name: **D. Hoffman**

Date: **03 August 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431920**

Sample **3** of **17**

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

Sample Point Description: **N2**

Sample Description: **N2**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 10:10**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	13.4	Deg C	20/07/2016	N Cov	FIELD
pH	6.2	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	128	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	0.44	mg/l	21/07/2016	N Cov	WAS036
Chloride as Cl	11.8	mg/l	21/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	7.4	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	<11.0	mg/l	25/07/2016	Y Cov	WAS040
Water Level to top of Casing	9.10	m	21/07/2016	N Cov	IN SITU M

Analyst Comments for 15431920:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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: **D. Hoffman**

Date: **03 August 2016**

Title: **Inorganic Team Leader**

Certificate of Analysis



Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431921**

Sample **4** of **17**

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

Sample Point Description: **N6**

Sample Description: **N6**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 12:05**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	13.7	Deg C	20/07/2016	N Cov	FIELD
pH	6.5	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	885	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	20.0	mg/l	21/07/2016	N Cov	WAS036
Chloride as Cl	59.0	mg/l	21/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	2.6	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	59.0	mg/l	25/07/2016	Y Cov	WAS040
Water Level to top of Casing	0.00	m	21/07/2016	N Cov	IN SITU M

Analyst Comments for 15431921:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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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Signed:

Name: **D. Hoffman**

Date: **03 August 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431922**

Sample **5** of **17**

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

Sample Point Description: **N8**

Sample Description: **N8**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 12:30**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	12.9	Deg C	20/07/2016	N Cov	FIELD
pH	6.7	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	851	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	3.00	mg/l	21/07/2016	N Cov	WAS036
Chloride as Cl	189	mg/l	27/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	5.9	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	36.0	mg/l	25/07/2016	Y Cov	WAS040
Water Level to top of Casing	4.10	m	21/07/2016	N Cov	IN SITU M

Analyst Comments for 15431922:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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: **D. Hoffman**

Date: **03 August 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431923**

Sample **6** of **17**

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

Sample Point Description: **NBH1**

Sample Description: **NBH1**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 11:40**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	12.2	Deg C	20/07/2016	N Cov	FIELD
pH	6.9	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	2350	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	76.6	mg/l	21/07/2016	N Cov	WAS036
Chloride as Cl	237	mg/l	27/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	0.5	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	155	mg/l	25/07/2016	Y Cov	WAS040
Water Level to top of Casing	3.00	m	21/07/2016	N Cov	IN SITU M

Analyst Comments for 15431923:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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: **D. Hoffman**

Date: **03 August 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431924**

Sample **7** of **17**

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

Sample Point Description: **NBH3**

Sample Description: **NBH3**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 11:15**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	14.1	Deg C	20/07/2016	N Cov	FIELD
pH	6.6	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1380	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	26.6	mg/l	21/07/2016	N Cov	WAS036
Chloride as Cl	62.6	mg/l	27/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	<0.5	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	153	mg/l	25/07/2016	Y Cov	WAS040
Water Level to top of Casing	7.45	m	21/07/2016	N Cov	IN SITU M

Analyst Comments for 15431924:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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: **D. Hoffman**

Date: **03 August 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431925**

Sample **8** of **17**

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

Sample Point Description: **N4**

Sample Description: **NBH4**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 11:00**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	13.6	Deg C	20/07/2016	N Cov	FIELD
pH	6.3	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	427	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	1.24	mg/l	21/07/2016	N Cov	WAS036
Chloride as Cl	13.3	mg/l	27/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	4.4	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	62.0	mg/l	25/07/2016	Y Cov	WAS040
Water Level to top of Casing	17.20	m	21/07/2016	N Cov	IN SITU M

Analyst Comments for 15431925:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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: **D. Hoffman**

Date: **03 August 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431926**

Sample **9** of **17**

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

Sample Point Description: **NBH5**

Sample Description: **NBH5**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 10:40**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	12.9	Deg C	20/07/2016	N Cov	FIELD
pH	6.2	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	446	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	1.61	mg/l	21/07/2016	N Cov	WAS036
Chloride as Cl	16.6	mg/l	27/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	3.3	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	237	mg/l	25/07/2016	Y Cov	WAS040
Water Level to top of Casing	6.70	m	21/07/2016	N Cov	IN SITU M

Analyst Comments for 15431926:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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: **D. Hoffman**

Date: **03 August 2016**

Title: **Inorganic Team Leader**

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Certificate of Analysis



Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431927**

Sample **10** of **17**

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

Sample Point Description: **NBH6**

Sample Description: **NBH6**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 10:25**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	13.6	Deg C	20/07/2016	N Cov	FIELD
pH	6.5	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	238	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	1.03	mg/l	21/07/2016	N Cov	WAS036
Chloride as Cl	12.4	mg/l	27/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	4.2	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	260	mg/l	25/07/2016	Y Cov	WAS040
Water Level to top of Casing	16.61	m	21/07/2016	N Cov	IN SITU M

Analyst Comments for 15431927:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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.

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Date: **03 August 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431928**

Sample **11** of **17**

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

Sample Point Description: **W1**

Sample Description: **W1**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 09:50**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	16.7	Deg C	20/07/2016	N Cov	FIELD
pH	8.0	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	485	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	1.47	mg/l	21/07/2016	N Cov	WAS036
Chloride as Cl	20.0	mg/l	27/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	9.7	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	<11.0	mg/l	25/07/2016	Y Cov	WAS040

Analyst Comments for 15431928:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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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Name: **D. Hoffman**

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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/1300720/2016**

Issue **1**

Laboratory Number: **15431929**

Sample **12** of **17**

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

Sample Point Description: **W2**

Sample Description: **W2**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 09:50**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	16.5	Deg C	20/07/2016	N Cov	FIELD
pH	8.1	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	483	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	1.40	mg/l	21/07/2016	N Cov	WAS036
Chloride as Cl	20.1	mg/l	27/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	8.9	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	<11.0	mg/l	25/07/2016	Y Cov	WAS040

Analyst Comments for 15431929:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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: **D. Hoffman**

Date: **03 August 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431930**

Sample **13** of **17**

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

Sample Point Description: **W3**

Sample Description: **W3**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 09:45**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	16.5	Deg C	20/07/2016	N Cov	FIELD
pH	8.1	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1520	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	0.53	mg/l	21/07/2016	N Cov	WAS036
Chloride as Cl	20.4	mg/l	27/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	9.2	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	<11.0	mg/l	25/07/2016	Y Cov	WAS040

Analyst Comments for 15431930:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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/1300720/2016**

Issue **1**

Laboratory Number: **15431931**

Sample **14** of **17**

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

Sample Point Description: **Groundwater Sump**

Sample Description: **Sump**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 12:15**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	15.0	Deg C	20/07/2016	N Cov	FIELD
pH	6.8	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	3290	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	25.1	mg/l	21/07/2016	N Cov	WAS036
Chloride as Cl	208	mg/l	27/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	4.6	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	106	mg/l	25/07/2016	Y Cov	WAS040

Analyst Comments for 15431931:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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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Date: **03 August 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431932**

Sample **15** of **17**

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

Sample Point Description: **Land Drain 1**

Sample Description: **Land Drain 1a**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 12:45**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	13.1	Deg C	20/07/2016	N Cov	FIELD
pH	7.2	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	594	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	172	mg/l	26/07/2016	Y Cov	WAS055
Chloride as Cl	335	mg/l	27/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	1.9	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	236	mg/l	25/07/2016	Y Cov	WAS040

Analyst Comments for 15431932:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised. {/*}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: **D. Hoffman**

Date: **03 August 2016**

Title: **Inorganic Team Leader**

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Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431933**

Sample **16** of **17**

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

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

Sample Description: **Land Drain 1b**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 12:45**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	13.2	Deg C	20/07/2016	N Cov	FIELD
pH	6.9	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	528	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	1.40	mg/l	22/07/2016	N Cov	WAS036
Chloride as Cl	52.1	mg/l	27/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	6.7	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	17.0	mg/l	25/07/2016	Y Cov	WAS040

Analyst Comments for 15431933:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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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Date: **03 August 2016**

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Report Number: **COV/1300720/2016**

Issue **1**

Laboratory Number: **15431934**

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

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

Sample Point Description: **Land Drain 2**

Sample Description: **Land Drain 2**

Sample Matrix: **Ground Water**

Sample Date/Time: **19 July 2016 12:48**

Sample Received: **19 July 2016**

Analysis Complete: **03 August 2016**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Field Temperature	14.0	Deg C	20/07/2016	N Cov	FIELD
pH	7.3	pH units	02/08/2016	Y Cov	WAS039
Conductivity- Electrical 20C	939	uS/cm	02/08/2016	Y Cov	WAS039
Ammoniacal Nitrogen as N	0.68	mg/l	21/07/2016	N Cov	WAS036
Chloride as Cl	101	mg/l	27/07/2016	N Cov	WAS036
Dissolved Oxygen, Fixed	14.4	mg/l	21/07/2016	Y Cov	WAS052
COD (Total)	421	mg/l	25/07/2016	Y Cov	WAS040

Analyst Comments for 15431934:

This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

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:

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Date: **03 August 2016**

Title: **Inorganic Team Leader**

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ANALYST COMMENTS FOR REPORT

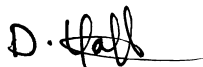
COV/1300720/2016

Issue 1

Date of Issue: 03 August 2016

Sample No	Analysis Comments
15431918	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised. {/**}Ammonia analysed by colorimetric method{*/}
15431919	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised. {/**}Ammonia analysed by colorimetric method{*/}
15431920	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15431921	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15431922	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15431923	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15431924	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15431925	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15431926	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15431927	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15431928	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15431929	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15431930	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15431931	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15431932	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised. {/**}Ammonia analysed by colorimetric method{*/}
15431933	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.
15431934	This sample has been analysed for pH outside recommended stability times. It is therefore possible that the results provided may be compromised.

Signed:



Name: **D. Hoffman**

Date: **03 August 2016**


Title: **Inorganic Team Leader**

DETERMINAND COMMENTS FOR REPORT COV/1300720/2016

ISSUE 1

Date of Issue : 03 August 2016

Sample No	Description	Determinand	Comments

Signed: 	Name: D. Hoffman	Date: 03 August 2016
	Title: Inorganic Team Leader	