

Analytical Services
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www.stsanalytical.com

Telford & Wrekin Council
Lawn Central
Darby House
Telford TF3 4JA
Shropshire

14 November 2011

Test Report: COV/815732/2011

Dear [REDACTED]

Analysis of your sample(s) submitted on 25 October 2011 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 Severn Trent Services and we look forward to receiving your next samples.

Yours Sincerely,

Signed: [REDACTED]

Name: [REDACTED]

Title: Team Leader



No. 1314
No. 4398



Certificate No. GB97/10269
Environmental Management Systems



Certificate No. FS 67435

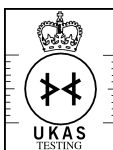


Certificate No. OHS 542058



MCERTS
THE ENVIRONMENT AGENCY'S
NATIONAL CERTIFICATION SCHEME

Report Summary



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Telford & Wrekin Council
Lawn Central
Darby House
Telford
Shropshire
TF3 4JA

Date of Issue: **14 November 2011**

Report Number: **COV/815732/2011**

Issue **2**

Job Description: Stoneyhill Landfill Monitoring

Job Location: Stoneyhill Landfill Monitoring

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

Job Received: **25 October 2011**

Number of Test Results
included in this report **189**

Analysis Commenced: **25 October 2011**

Signed:

[Redacted Signature]

Name:

[Redacted Name]

Date: **14 November 2011**

Title:

Team Leader

Severn Trent Services was not responsible for sampling unless otherwise stated. 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.

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673271**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 09:00**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.084	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.003	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.051	mg/l	Y Cov	WAS049
pH	8.0	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	10100	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	3970	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	788	mg/l	Y Cov	WAS036
Chloride as Cl	1610	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	25.0	mg/l	Y Cov	CON27
Suspended Solids	60	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	93	mg/l	Y Cov	WAS001
COD (1 hr settled)	1300	mg/l	Y Cov	WAS040
Sulphide as S	<0.029	mg/l	Y Cov	WAS033
Methane, Dissolved	4.0	mg/l	N Cov	62

Analyst Comments for 12673271:

This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sulphate analysed by ion chromatography due to interference with turbidimetric determination

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed		Name:	Date: 14 November 2011
		Title: Team Leader	

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673272**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 09:00**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.076	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.004	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.070	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	775	mg/l	Y Cov	WAS036
Sulphide as S	0.040	mg/l	Y Cov	WAS033

Analyst Comments for 12673272:

This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sample filtered through a 20-25um filter prior to analysis

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed:

Name:

Date: **14 November 2011**

Title:

Team Leader

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673273**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 09:45**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.085	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.006	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.145	mg/l	Y Cov	WAS049
pH	7.5	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	6950	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	3050	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	509	mg/l	Y Cov	WAS036
Chloride as Cl	852	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	0.39	mg/l	Y Cov	WAS036
Sulphate as SO4	11.4	mg/l	Y Cov	WAS036
Suspended Solids	74	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	64	mg/l	Y Cov	WAS001
COD (1 hr settled)	768	mg/l	Y Cov	WAS040
Sulphide as S	<0.029	mg/l	Y Cov	WAS033
Methane, Dissolved	9.4	mg/l	N Cov	62

Analyst Comments for 12673273:



This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised.

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed: 	Name: 	Date: 14 November 2011
	Title: Team Leader	

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673274**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 09:45**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.034	mg/l	Y Cov	WAS049
Copper, Total as Cu	<0.001	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.032	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	516	mg/l	Y Cov	WAS036
Sulphide as S	0.070	mg/l	Y Cov	WAS033

Analyst Comments for 12673274:

This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sample filtered through a 20-25um filter prior to analysis

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed:

Name:

Date: **14 November 2011**

Title:

Team Leader

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673275**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 10:45**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	1.40	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.027	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.189	mg/l	Y Cov	WAS049
pH	7.6	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	9610	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	4430	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	796	mg/l	Y Cov	WAS036
Chloride as Cl	1150	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	<5.00	mg/l	Y Cov	CON27
Suspended Solids	216	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	62	mg/l	Y Cov	WAS001
COD (1 hr settled)	1460	mg/l	Y Cov	WAS040
Sulphide as S	0.070	mg/l	Y Cov	WAS033
Methane, Dissolved	8.7	mg/l	N Cov	62

Analyst Comments for 12673275:

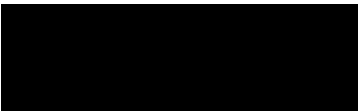
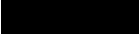
This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sulphate analysed by ion chromatography due to interference with turbidimetric determination

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed: 	Name: 	Date: 14 November 2011
	Title: Team Leader	

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673276**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 3 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 10:45**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.245	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.005	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.053	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	799	mg/l	Y Cov	WAS036
Sulphide as S	0.250	mg/l	Y Cov	WAS033

Analyst Comments for 12673276:



This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sample filtered through a 20-25um filter prior to analysis

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed: 	Name: 	Date: 14 November 2011
	Title: Team Leader	

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673277**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 11:30**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	1.06	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.019	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.124	mg/l	Y Cov	WAS049
pH	7.4	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	8367	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	3430	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	570	mg/l	Y Cov	WAS036
Chloride as Cl	1020	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	6.63	mg/l	Y Cov	CON27
Suspended Solids	180	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	48	mg/l	Y Cov	WAS001
COD (1 hr settled)	997	mg/l	Y Cov	WAS040
Sulphide as S	0.080	mg/l	Y Cov	WAS033
Methane, Dissolved	12	mg/l	N Cov	62

Analyst Comments for 12673277:

This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sulphate analysed by ion chromatography due to interference with turbidimetric determination

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed:

Name:

Date: **14 November 2011**

Title: **Team Leader**

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673278**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 11:30**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.272	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.004	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.023	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	566	mg/l	Y Cov	WAS036
Sulphide as S	0.080	mg/l	Y Cov	WAS033

Analyst Comments for 12673278:



This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sample filtered through a 20-25um filter prior to analysis

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed: 	Name: 	Date: 14 November 2011
	Title: Team Leader	

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673279**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 12:15**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.180	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.004	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.037	mg/l	Y Cov	WAS049
pH	7.5	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	11180	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	4580	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	820	mg/l	Y Cov	WAS036
Chloride as Cl	1530	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	9.34	mg/l	Y Cov	CON27
Suspended Solids	46	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	282	mg/l	Y Cov	WAS001
COD (1 hr settled)	1380	mg/l	Y Cov	WAS040
Sulphide as S	0.050	mg/l	Y Cov	WAS033
Methane, Dissolved	7.5	mg/l	N Cov	62

Analyst Comments for 12673279:


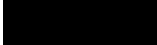
This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sulphate analysed by ion chromatography due to interference with turbidimetric determination

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed: 	Name: 	Date: 14 November 2011
	Title: Team Leader	

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673280**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 12:15**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.103	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.002	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.026	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	827	mg/l	Y Cov	WAS036
Sulphide as S	0.070	mg/l	Y Cov	WAS033

Analyst Comments for 12673280:



This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sample filtered through a 20-25um filter prior to analysis

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed: 	Name: 	Date: 14 November 2011
	Title: Team Leader	

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673281**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 13:00**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.091	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.004	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.055	mg/l	Y Cov	WAS049
pH	7.6	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	13970	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	4550	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	1000	mg/l	Y Cov	WAS036
Chloride as Cl	2560	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Sulphate as SO4	27.5	mg/l	Y Cov	WAS036
Suspended Solids	10	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	84	mg/l	Y Cov	WAS001
COD (1 hr settled)	1670	mg/l	Y Cov	WAS040
Sulphide as S	0.030	mg/l	Y Cov	WAS033
Methane, Dissolved	7.3	mg/l	N Cov	62

Analyst Comments for 12673281:

This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised.

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed		Name:	Date: 14 November 2011
		Title: Team Leader	

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673282**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 13:00**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.100	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.004	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.086	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	981	mg/l	Y Cov	WAS036
Sulphide as S	0.030	mg/l	Y Cov	WAS033

Analyst Comments for 12673282:

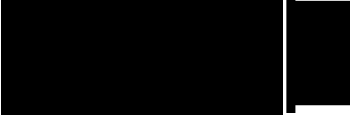
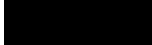
This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sample filtered through a 20-25um filter prior to analysis

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed: 	Name: 	Date: 14 November 2011
	Title: Team Leader	

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673283**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 6**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 13:45**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.674	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.026	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.623	mg/l	Y Cov	WAS049
pH	7.5	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	19040	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	8980	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	1420	mg/l	Y Cov	WAS036
Chloride as Cl	2320	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	14.1	mg/l	Y Cov	CON27
Suspended Solids	82	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	188	mg/l	Y Cov	WAS001
COD (1 hr settled)	2510	mg/l	Y Cov	WAS040
Sulphide as S	0.080	mg/l	Y Cov	WAS033
Methane, Dissolved	7.8	mg/l	N Cov	62


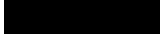
Analyst Comments for 12673283:

This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sulphate analysed by ion chromatography due to interference with turbidimetric determination

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.
I/S=Insufficient sample

Signed: 	Name: 	Date: 14 November 2011
	Title: Team Leader	

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673284**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 6 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 13:45**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.831	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.024	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.528	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	1450	mg/l	Y Cov	WAS036
Sulphide as S	0.340	mg/l	Y Cov	WAS033

Analyst Comments for 12673284:



This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sample filtered through a 20-25um filter prior to analysis

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed: 	Name: 	Date: 14 November 2011
	Title: Team Leader	

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673285**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 14:30**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.886	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.004	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.077	mg/l	Y Cov	WAS049
pH	7.0	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	1570	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	736	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	13.8	mg/l	Y Cov	WAS036
Chloride as Cl	163	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	<5.00	mg/l	Y Cov	CON27
Suspended Solids	176	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	9	mg/l	Y Cov	WAS001
COD (1 hr settled)	123	mg/l	Y Cov	WAS040
Sulphide as S	<0.029	mg/l	Y Cov	WAS033
Methane, Dissolved	11	mg/l	N Cov	62

Analyst Comments for 12673285:



This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sulphate analysed by ion chromatography due to interference with turbidimetric determination

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed: 	Name: 	Date: 14 November 2011
	Title: Team Leader	

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673286**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 14:30**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	<0.032	mg/l	Y Cov	WAS049
Copper, Total as Cu	<0.001	mg/l	Y Cov	WAS049
Zinc, Total as Zn	<0.006	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	13.8	mg/l	Y Cov	WAS036
Sulphide as S	0.920	mg/l	Y Cov	WAS033

Analyst Comments for 12673286:



This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sample filtered through a 20-25um filter prior to analysis

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed: 	Name: 	Date: 14 November 2011
	Title: Team Leader	

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673287**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 15:00**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.550	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.003	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.038	mg/l	Y Cov	WAS049
pH	7.3	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	5858	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	2510	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	320	mg/l	Y Cov	WAS036
Chloride as Cl	681	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	<5.00	mg/l	Y Cov	CON27
Suspended Solids	98	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	38	mg/l	Y Cov	WAS001
COD (1 hr settled)	637	mg/l	Y Cov	WAS040
Sulphide as S	<0.029	mg/l	Y Cov	WAS033
Methane, Dissolved	5.8	mg/l	N Cov	62

Analyst Comments for 12673287:

This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sulphate analysed by ion chromatography due to interference with turbidimetric determination

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed

Name:

Date: **14 November 2011**

Title: **Team Leader**

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Report Number: **COV/815732/2011**

Issue **2**

Laboratory Number: **12673288**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **25 October 2011 15:00**

Sample Received: **25 October 2011**

Analysis Complete: **14 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.053	mg/l	Y Cov	WAS049
Copper, Total as Cu	<0.001	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.007	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	316	mg/l	Y Cov	WAS036
Sulphide as S	<0.029	mg/l	Y Cov	WAS033

Analyst Comments for 12673288:

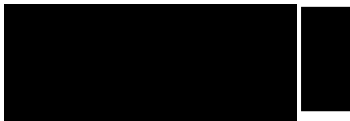

This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. Sample filtered through a 20-25um filter prior to analysis

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

Analysed at: Brd = Bridgend, Cov = Coventry, Rea = Reading, Run = Runcorn, S = Subcontracted, Wak = Wakefield.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. Relating to Legionella volume analysed 1g is approximately equivalent to 1ml.

I/S=Insufficient sample

Signed: 	Name: 	Date: 14 November 2011
	Title: Team Leader	

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