

Analytical Services
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Coventry, CV4 9GU

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

05 October 2011

Test Report: COV/807467/2011

Dear [REDACTED]

Analysis of your sample(s) submitted on 20 September 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,

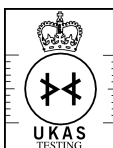
Signed: [REDACTED]

Name: [REDACTED]

Title: Chemistry Operations Manager



Report Summary



1314
1229
0897
4409



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

Date of Issue: **05 October 2011**

Report Number: **COV/807467/2011**

Issue **1**

Job Description: Stoneyhill Landfill Monitoring

Job Location: Stoneyhill Landfill Monitoring

Number of Samples
included in this report **16**

Job Received: **20 September 2011**

Number of Test Results
included in this report **168**

Analysis Commenced: **20 September 2011**

Signed:

[Redacted Signature]

Name:

[Redacted Name]

Date: **05 October 2011**

Title: **Chemistry Operations Manager**

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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Certificate of Analysis



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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608126**

Sample **1** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 09:30**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.225	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.010	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.088	mg/l	Y Cov	WAS049
pH	7.8	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	10000	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	3130	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	1600	mg/l	Y Cov	WAS055
Chloride as Cl	1580	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	4.9	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	32.6	mg/l	Y Cov	CON27
Suspended Solids	70.0	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	85	mg/l	Y Cov	WAS001
COD (1 hr settled)	1410	mg/l	Y Cov	WAS040
Sulphide as S	0.06	mg/l	Y Cov	WAS033
Methane, Dissolved	6.7	mg/l	N Cov	62

Analyst Comments for 12608126:


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: 05 October 2011
	Title: Chemistry Operations Manager	

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608127**

Sample **2** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 09:30**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.154	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.015	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.080	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	1620	mg/l	Y Cov	WAS055
Sulphide as S	0.06	mg/l	Y Cov	WAS033

Analyst Comments for 12608127:

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: **05 October 2011**

Title:

Chemistry Operations Manager

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608128**

Sample **3** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 10:30**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.213	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.009	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.139	mg/l	Y Cov	WAS049
pH	7.5	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	7080	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	2430	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	1120	mg/l	Y Cov	WAS055
Chloride as Cl	870	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	2.3	mg/l	Y Cov	WAS036
Sulphate as SO4	18.3	mg/l	Y Cov	WAS036
Suspended Solids	90.0	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	50	mg/l	Y Cov	WAS001
COD (1 hr settled)	882	mg/l	Y Cov	WAS040
Sulphide as S	0.08	mg/l	Y Cov	WAS033
Methane, Dissolved	14	mg/l	N Cov	62

Analyst Comments for 12608128:



No Analyst Comment

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: **05 October 2011**
Title: **Chemistry Operations Manager**

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608129**

Sample **4** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4 Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 10:30**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.121	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.009	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.043	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	1090	mg/l	Y Cov	WAS055
Sulphide as S	0.03	mg/l	Y Cov	WAS033

Analyst Comments for 12608129:

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: **05 October 2011**

Title:

Chemistry Operations Manager

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608130**

Sample **5** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 2**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 11:00**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.954	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.016	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.097	mg/l	Y Cov	WAS049
pH	7.1	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	7890	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	2820	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	903	mg/l	Y Cov	WAS055
Chloride as Cl	1150	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	0.35	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	28.3	mg/l	Y Cov	CON27
Suspended Solids	164	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	27	mg/l	Y Cov	WAS001
COD (1 hr settled)	1050	mg/l	Y Cov	WAS040
Sulphide as S	0.12	mg/l	Y Cov	WAS033
Methane, Dissolved	10	mg/l	N Cov	62

Analyst Comments for 12608130:



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: 05 October 2011
	Title: Chemistry Operations Manager	

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608131**

Sample **6** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 2 Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 11:00**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.485	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.015	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.043	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	912	mg/l	Y Cov	WAS055
Sulphide as S	0.11	mg/l	Y Cov	WAS033

Analyst Comments for 12608131:

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: **05 October 2011**

Title:

Chemistry Operations Manager

Severn Trent Services

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608132**

Sample **7** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 12:00**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.436	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.005	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.060	mg/l	Y Cov	WAS049
pH	7.4	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	6940	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	2710	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	1050	mg/l	Y Cov	WAS055
Chloride as Cl	799	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	0.35	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	12.6	mg/l	Y Cov	CON27
Suspended Solids	148	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	35	mg/l	Y Cov	WAS001
COD (1 hr settled)	870	mg/l	Y Cov	WAS040
Sulphide as S	0.05	mg/l	Y Cov	WAS033
Methane, Dissolved	14	mg/l	N Cov	62

Analyst Comments for 12608132:


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: 05 October 2011
	Title: Chemistry Operations Manager	

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608133**

Sample **8** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1 Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 12:00**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.681	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.012	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.045	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	1010	mg/l	Y Cov	WAS055
Sulphide as S	0.08	mg/l	Y Cov	WAS033

Analyst Comments for 12608133:

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: **05 October 2011**

Title:

Chemistry Operations Manager

Severn Trent Services

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608134**

Sample **9** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 13:00**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.335	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.009	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.079	mg/l	Y Cov	WAS049
pH	7.7	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	13600	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	4180	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	2220	mg/l	Y Cov	WAS055
Chloride as Cl	2660	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	<1.0	mg/l	Y Cov	WAS036
Suspended Solids	48.0	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	91	mg/l	Y Cov	WAS001
COD (1 hr settled)	1740	mg/l	Y Cov	WAS040
Sulphide as S	0.11	mg/l	Y Cov	WAS033
Methane, Dissolved	12	mg/l	N Cov	62

Analyst Comments for 12608134:


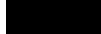
No Analyst Comment

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: 05 October 2011
	Title: Chemistry Operations Manager	

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608135**

Sample **10** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1 Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 13:00**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.215	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.018	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.061	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	2270	mg/l	Y Cov	WAS055
Sulphide as S	<0.029	mg/l	Y Cov	WAS033

Analyst Comments for 12608135:

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: **05 October 2011**

Title:

Chemistry Operations Manager

Severn Trent Services

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608136**

Sample **11** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 13:30**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	1.32	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.013	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.102	mg/l	Y Cov	WAS049
pH	7.3	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	1430	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	673	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	4.97	mg/l	Y Cov	WAS036
Chloride as Cl	131	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)	13	mg/l	Y Cov	WAS001
COD (1 hr settled)	71	mg/l	Y Cov	WAS040
Sulphide as S	0.04	mg/l	Y Cov	WAS033
Methane, Dissolved	2.8	mg/l	N Cov	62

Analyst Comments for 12608136:



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: 05 October 2011
	Title: Chemistry Operations Manager	

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608137**

Sample **12** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8 Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 13:30**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.139	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.009	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.020	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	5.21	mg/l	Y Cov	WAS036
Sulphide as S	0.03	mg/l	Y Cov	WAS033

Analyst Comments for 12608137:

Sample filtered through a 0.45um 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: **05 October 2011**

Title:

Chemistry Operations Manager

Severn Trent Services

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

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608138**

Sample **13** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 14:15**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	4.18	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.050	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.239	mg/l	Y Cov	WAS049
pH	7.5	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	5490	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	2030	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	332	mg/l	Y Cov	WAS055
Chloride as Cl	692	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.	7.74	mg/l	Y Cov	CON27
Suspended Solids	562	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	60	mg/l	Y Cov	WAS001
COD (1 hr settled)	718	mg/l	Y Cov	WAS040
Sulphide as S	0.88	mg/l	Y Cov	WAS033
Methane, Dissolved	9.3	mg/l	N Cov	62

Analyst Comments for 12608138:



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: 05 October 2011
	Title: Chemistry Operations Manager	

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608139**

Sample **14** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3 Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 14:15**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.388	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.018	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.040	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	329	mg/l	Y Cov	WAS055
Sulphide as S	0.76	mg/l	Y Cov	WAS033

Analyst Comments for 12608139:

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: **05 October 2011**

Title:

Chemistry Operations Manager

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608140**

Sample **15** of **16**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 14:15**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	1.01	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.035	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.109	mg/l	Y Cov	WAS049
pH	7.7	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	9730	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	3520	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	804	mg/l	Y Cov	WAS055
Chloride as Cl	1320	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.	17.6	mg/l	Y Cov	CON27
Suspended Solids	114	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	208	mg/l	Y Cov	WAS001
COD (1 hr settled)	1320	mg/l	Y Cov	WAS040
Sulphide as S	0.08	mg/l	Y Cov	WAS033
Methane, Dissolved	4.8	mg/l	N Cov	62

Analyst Comments for 12608140:



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: 05 October 2011
	Title: Chemistry Operations Manager	

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Report Number: **COV/807467/2011**

Issue **1**

Laboratory Number: **12608141**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5 Filtered**

Sample Matrix: **Waste waters**

Sample Date/Time: **20 September 2011 15:00**

Sample Received: **20 September 2011**

Analysis Complete: **05 October 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.699	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.021	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.060	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	804	mg/l	Y Cov	WAS055
Sulphide as S	0.11	mg/l	Y Cov	WAS033

Analyst Comments for 12608141:

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.
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