

Analytical Services
Torrington Avenue,
Coventry, CV4 9GU

T: +44 (0)24 7642 1213
F: +44 (0)24 7685 6575

www.stsanalytical.com

██████████ Council

**Lawn Central
Darby House
Telford TF3 4JA
Shropshire**

11 November 2011

Test Report: COV/813012/2011

Dear ██████████

Analysis of your sample(s) submitted on 13 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: ██████████

Name: ██████████

Title: Chemistry Operations Manager



Report Summary



1314
1229
0897
4409



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

Date of Issue: **11 November 2011**

Report Number: **COV/813012/2011**

Issue **2**

Job Description: Stoneyhill Landfill Monitoring

Job Location: Stoneyhill Landfill Monitoring

Number of Samples
included in this report **14**

Job Received: **13 October 2011**

Number of Test Results
included in this report **1582**

Analysis Commenced: **13 October 2011**

Signed:

Name:

Date: **11 November 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.

Severn Trent Services Analytical Services is a trading name of Severn Trent Laboratories Limited. This communication has been sent to you by Severn Trent Laboratories Limited. Registered in England and Wales. Registration No. 2148934. Registered Office: Severn Trent Centre, 2 St. John's Street, Coventry, CV1 2LZ

(c) Severn Trent Services 2011. All rights reserved. We, Severn Trent Laboratories Limited, are the owner of all copyright in this report. You must not copy, reproduce, amend or adapt this report, its contents or any format in which it is delivered without our prior written agreement. If you copy, reproduce, amend, or adapt this report in any way without our agreement you will be liable for any damage or loss to us. In the event of a dispute the copy of the report held by us shall be the reference copy.

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/813012/2011**

Issue **2**

Laboratory Number: **12652183**

Sample **1** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 09:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	<0.20	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.917	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0010	mg/l	Y Cov	WAS049
Calcium , Total as Ca	225	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.1336	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.012	mg/l	Y Cov	WAS049
Iron , Total as Fe	10.1	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	1.87	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	6.6	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	0.7	mg/l	N Cov	CALC
Lead , Total as Pb	0.029	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.935	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.045	mg/l	Y Cov	WAS049
Potassium , Total as K	396	mg/l	Y Cov	WAS049
Sodium , Total as Na	586	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.128	mg/l	Y Cov	WAS049
pH	7.5	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	7540	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	3230	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	535	mg/l	Y Cov	WAS055
Chloride as Cl	854	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
Phosphate, Ortho as P	1.06	mg/l	Y Cov	WAS036
Sulphate as SO4	71.7	mg/l	Y Cov	WAS036
Suspended Solids	184	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	37	mg/l	Y Cov	WAS001
COD (1 hr settled)	919	mg/l	Y Cov	WAS040
TOC (Filtered)	219	mg/l	Y Cov	WAS005
Cyanide, Total as CN	<10	ug/l	Y Cov	WAS018

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

SEVERN
TRENT
SERVICES

Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652183**

Sample **1** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 09:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	<0.029	mg/l	Y Cov	WAS033
Fluoride as F	0.4	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
Aldrin	<16	ng/l	Y Cov	GEO47
alpha-Endosulphan	<16	ng/l	Y Cov	GEO47
alpha-HCH	<12	ng/l	Y Cov	GEO47
beta-Endosulphan	<16	ng/l	Y Cov	GEO47
beta-HCH	<12	ng/l	Y Cov	GEO47
alpha-Chlordane	<8	ng/l	Y Cov	GEO47
Dichlobenil	21	ng/l	Y Cov	GEO47
Dieldrin	<16	ng/l	Y Cov	GEO47
Endrin	<16	ng/l	N Cov	GEO47
gamma-HCH	<12	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<8	ng/l	Y Cov	GEO47
Hexachlorobenzene	<8	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<28	ng/l	Y Cov	GEO47
Isodrin	<16	ng/l	Y Cov	GEO47
o,p - DDE	<8	ng/l	Y Cov	GEO47
p,p - DDE	<8	ng/l	Y Cov	GEO47
o,p - TDE	<8	ng/l	Y Cov	GEO47
p,p - TDE	<8	ng/l	Y Cov	GEO47
o,p - DDT	<8	ng/l	Y Cov	GEO47
p,p - DDT	<8	ng/l	Y Cov	GEO47
Tecnazene	<40	ng/l	Y Cov	GEO47
gamma-Chlordane	<16	ng/l	Y Cov	GEO47
Triallate	<40	ng/l	Y Cov	GEO47
Trifluralin	<120	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.016	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.008	ug/l	Y Cov	GEO47
Carbophenothion	<0.012	ug/l	Y Cov	GEO47

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

SEVERN
TRENT
SERVICES

Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652183**

Sample **1** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 09:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.008	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.008	ug/l	Y Cov	GEO47
Diazinon	<0.012	ug/l	Y Cov	GEO47
Dichlorvos	Analyst Comment	ug/l	Y Cov	GEO47
Dimethoate	<0.080	ug/l	Y Cov	GEO47
Fenitrothion	<0.008	ug/l	Y Cov	GEO47
Fenthion	<0.008	ug/l	Y Cov	GEO47
Malathion	<0.016	ug/l	Y Cov	GEO47
Mevinphos	<0.080	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.012	ug/l	Y Cov	GEO47
Parathion-methyl	<0.012	ug/l	Y Cov	GEO47
Phorate	<0.016	ug/l	Y Cov	GEO47
Phosalone	<0.016	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.020	ug/l	Y Cov	GEO47
Propetamphos	<0.012	ug/l	Y Cov	GEO47
Triazophos	<0.008	ug/l	Y Cov	GEO47
Atrazine	<0.080	ug/l	Y Cov	GEO47
Prometryne	<0.080	ug/l	Y Cov	GEO47
Propazine	<0.080	ug/l	Y Cov	GEO47
Simazine	<0.080	ug/l	Y Cov	GEO47
Terbutryn	<0.080	ug/l	Y Cov	GEO47
Trietazine	<0.040	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	Analyst Comment	ug/l	Y Cov	GEO32
Chloromethane	Analyst Comment	ug/l	Y Cov	GEO32

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/813012/2011**

Issue **2**

Laboratory Number: **12652183**

Sample **1** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 09:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<10.0	ug/l	Y Cov	GEO32
Bromomethane	<10.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<10.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<10.0	ug/l	Y Cov	GEO32
Dichloromethane	<10.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<10.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<10.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<10.0	ug/l	Y Cov	GEO32
Chloroform	<10.0	ug/l	Y Cov	GEO32
Bromochloromethane	<10.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<10.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<10.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<10.0	ug/l	Y Cov	GEO32
Benzene	<10.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<10.0	ug/l	Y Cov	GEO32
Trichloroethene	<10.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<10.0	ug/l	Y Cov	GEO32
Dibromomethane	<10.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	Analyst Comment	ug/l	Y Cov	GEO32
Toluene	<10.0	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<10.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<10.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<10.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<5.0	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<10.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<10.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<10.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<10.0	ug/l	Y Cov	GEO32
Chlorobenzene	<10.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<10.0	ug/l	Y Cov	GEO32
Ethyl Benzene	<10.0	ug/l	Y Cov	GEO32
m&p-Xylene	28.8	ug/l	Y Cov	GEO32

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/813012/2011**

Issue **2**

Laboratory Number: **12652183**

Sample **1** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 09:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	10.8	ug/l	Y Cov	GEO32
Styrene	<10.0	ug/l	Y Cov	GEO32
Bromoform	<10.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<10.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<10.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<10.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<10.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<10.0	ug/l	Y Cov	GEO32
Bromobenzene	<10.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<10.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<10.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<10.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	12.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<10.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<50.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<10.0	ug/l	Y Cov	GEO32
Naphthalene	<10.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO32
MTBE	<10.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	101.0	%Recovery	N Cov	GEO32
Toluene-d8	102.0	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	95.3	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<10.0	ug/l	Y Cov	GEO40

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/813012/2011**

Issue **2**

Laboratory Number: **12652183**

Sample **1** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 09:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<10.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
2-Methylphenol	<10.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	<10.0	ug/l	N Cov	GEO40
Dibenzofuran	<10.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<10.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<10.0	ug/l	Y Cov	GEO40
Hexachloroethane	<10.0	ug/l	Y Cov	GEO40
Nitrobenzene	<10.0	ug/l	Y Cov	GEO40
Isophorone	<10.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<10.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<10.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<10.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Naphthalene	<20.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<10.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<10.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<10.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<10.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<10.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Acenaphthylene	<10.0	ug/l	Y Cov	GEO40
Acenaphthene	<10.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Diethylphthalate	<10.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<50.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<10.0	ug/l	Y Cov	GEO40

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/813012/2011**

Issue **2**

Laboratory Number: **12652183**

Sample **1** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 09:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<10.0	ug/l	Y Cov	GEO40
Diphenylamine	<10.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<10.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<10.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<10.0	ug/l	Y Cov	GEO40
Phenanthrene	<10.0	ug/l	Y Cov	GEO40
Anthracene	<10.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<10.0	ug/l	Y Cov	GEO40
Fluoranthene	<10.0	ug/l	Y Cov	GEO40
Pyrene	<10.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<10.0	ug/l	Y Cov	GEO40
Chrysene	<10.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<50.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<10.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<10.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<10.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<10.0	ug/l	Y Cov	GEO40
2-Fluorophenol	86.0	%Recovery	N Cov	GEO40
Phenol-d6	97.8	%Recovery	N Cov	GEO40
Nitrobenzene-d5	89.4	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	84.4	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	99.8	%Recovery	N Cov	GEO40
Terphenyl-d14	78.0	%Recovery	N Cov	GEO40
Selenium, Total as Se	<0.0016	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.1675	mg/l	Y Cov	WAS051
Methane, Dissolved	10	mg/l	N Cov	62

Analyst Comments for 12652183:

Severn Trent Services

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

This sample has been analysed for VOC Waters method GEO32, Aluminium, Total as Al, Copper, Total as Cu, Sodium Total as Na, Cyanide, total as CN, TOC (Filtered) outside recommended stability times. It is therefore possible that the results provided may be compromised. The ferrous iron analysis was not carried out on site and there is the possibility of change in the ferrous-ferric ratio between sampling and analysis.

Reporting limits raised for GCMSMS Pesticide results due to nature of sample matrix. Result for Dichlorvos is unavailable due to AQC breach. Raised reporting limits for SVOC's due to sample matrix.

VOC reporting limits raised due to nature of sample matrix.



Reporting limit raised for 1,2-dibromo-3-chloropropane to 50ug/l due to instrument sensitivity issues.

Result for dichlorodifluoromethane, chloromethane and cis-1,3-dichloropropane given as estimates of <10ug/L due to QC breaches.

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: 11 November 2011
	Title: Chemistry Operations Manager	

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652184**

Sample **2** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 09:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.137	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.008	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.030	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	524	mg/l	Y Cov	WAS055
Sulphide as S	<0.029	mg/l	Y Cov	WAS033

Analyst Comments for 12652184:

This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu, Zinc, Total as Zn 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: **11 November 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/813012/2011**

Issue **2**

Laboratory Number: **12652185**

Sample **3** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 10:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	1.68	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.592	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	Y Cov	WAS049
Calcium , Total as Ca	340	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0204	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.062	mg/l	Y Cov	WAS049
Iron , Total as Fe	9.05	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	<0.19	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	2.1	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.025	mg/l	Y Cov	WAS049
Manganese , Total as Mn	1.81	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.034	mg/l	Y Cov	WAS049
Potassium , Total as K	94.8	mg/l	Y Cov	WAS049
Sodium , Total as Na	209	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.092	mg/l	Y Cov	WAS049
pH	7.2	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	3020	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	1570	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	93.2	mg/l	Y Cov	WAS036
Chloride as Cl	255	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
Phosphate, Ortho as P	<0.08	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	3.83	mg/l	Y Cov	CON27
Suspended Solids	108	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	9	mg/l	Y Cov	WAS001
COD (1 hr settled)	204	mg/l	Y Cov	WAS040
TOC (Filtered)	48.5	mg/l	Y Cov	WAS005
Cyanide, Total as CN	<10	ug/l	Y Cov	WAS018

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

SEVERN
TRENT
SERVICES

Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652185**

Sample **3** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 10:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	<0.029	mg/l	Y Cov	WAS033
Fluoride as F	0.4	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	48	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
Aldrin	<16	ng/l	Y Cov	GEO47
alpha-Endosulphan	<16	ng/l	Y Cov	GEO47
alpha-HCH	<12	ng/l	Y Cov	GEO47
beta-Endosulphan	<16	ng/l	Y Cov	GEO47
beta-HCH	<12	ng/l	Y Cov	GEO47
alpha-Chlordane	<8	ng/l	Y Cov	GEO47
Dichlobenil	<8	ng/l	Y Cov	GEO47
Dieldrin	<16	ng/l	Y Cov	GEO47
Endrin	<16	ng/l	N Cov	GEO47
gamma-HCH	<12	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<8	ng/l	Y Cov	GEO47
Hexachlorobenzene	<8	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<28	ng/l	Y Cov	GEO47
Isodrin	<16	ng/l	Y Cov	GEO47
o,p - DDE	<8	ng/l	Y Cov	GEO47
p,p - DDE	<8	ng/l	Y Cov	GEO47
o,p - TDE	<8	ng/l	Y Cov	GEO47
p,p - TDE	<8	ng/l	Y Cov	GEO47
o,p - DDT	<8	ng/l	Y Cov	GEO47
p,p - DDT	<8	ng/l	Y Cov	GEO47
Tecnazene	<40	ng/l	Y Cov	GEO47
gamma-Chlordane	<16	ng/l	Y Cov	GEO47
Triallate	<40	ng/l	Y Cov	GEO47
Trifluralin	<120	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.016	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.008	ug/l	Y Cov	GEO47
Carbophenothion	<0.012	ug/l	Y Cov	GEO47

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/813012/2011**

Issue **2**

Laboratory Number: **12652185**

Sample **3** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 10:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.008	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.008	ug/l	Y Cov	GEO47
Diazinon	<0.012	ug/l	Y Cov	GEO47
Dichlorvos	Analyst Comment	ug/l	Y Cov	GEO47
Dimethoate	<0.080	ug/l	Y Cov	GEO47
Fenitrothion	<0.008	ug/l	Y Cov	GEO47
Fenthion	<0.008	ug/l	Y Cov	GEO47
Malathion	<0.016	ug/l	Y Cov	GEO47
Mevinphos	<0.080	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.012	ug/l	Y Cov	GEO47
Parathion-methyl	<0.012	ug/l	Y Cov	GEO47
Phorate	<0.016	ug/l	Y Cov	GEO47
Phosalone	<0.016	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.020	ug/l	Y Cov	GEO47
Propetamphos	<0.012	ug/l	Y Cov	GEO47
Triazophos	<0.008	ug/l	Y Cov	GEO47
Atrazine	<0.080	ug/l	Y Cov	GEO47
Prometryne	<0.080	ug/l	Y Cov	GEO47
Propazine	<0.080	ug/l	Y Cov	GEO47
Simazine	<0.080	ug/l	Y Cov	GEO47
Terbutryn	<0.080	ug/l	Y Cov	GEO47
Trietazine	<0.040	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	Analyst Comment	ug/l	Y Cov	GEO32
Chloromethane	Analyst Comment	ug/l	Y Cov	GEO32

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/813012/2011**

Issue **2**

Laboratory Number: **12652185**

Sample **3** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 10:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<5.0	ug/l	Y Cov	GEO32
Bromomethane	<5.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<5.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<5.0	ug/l	Y Cov	GEO32
Dichloromethane	<5.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<5.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<5.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<5.0	ug/l	Y Cov	GEO32
Chloroform	<5.0	ug/l	Y Cov	GEO32
Bromochloromethane	<5.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<5.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<5.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<5.0	ug/l	Y Cov	GEO32
Benzene	<5.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<5.0	ug/l	Y Cov	GEO32
Trichloroethene	<5.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<5.0	ug/l	Y Cov	GEO32
Dibromomethane	<5.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	Analyst Comment	ug/l	Y Cov	GEO32
Toluene	<5.0	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<5.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<5.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<5.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<2.5	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<5.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<5.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<5.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<5.0	ug/l	Y Cov	GEO32
Chlorobenzene	<5.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<5.0	ug/l	Y Cov	GEO32
Ethyl Benzene	<5.0	ug/l	Y Cov	GEO32
m&p-Xylene	<5.0	ug/l	Y Cov	GEO32

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/813012/2011**

Issue **2**

Laboratory Number: **12652185**

Sample **3** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 10:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	<5.0	ug/l	Y Cov	GEO32
Styrene	<5.0	ug/l	Y Cov	GEO32
Bromoform	<5.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<5.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<5.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<5.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<5.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<5.0	ug/l	Y Cov	GEO32
Bromobenzene	<5.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<5.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<5.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<5.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<5.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	<5.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<5.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<5.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<5.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<5.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<5.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<5.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<25.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<5.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<5.0	ug/l	Y Cov	GEO32
Naphthalene	<5.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<5.0	ug/l	Y Cov	GEO32
MTBE	<5.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	98.4	%Recovery	N Cov	GEO32
Toluene-d8	93.7	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	93.6	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<2.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<2.0	ug/l	Y Cov	GEO40

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/813012/2011**

Issue **2**

Laboratory Number: **12652185**

Sample **3** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 10:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<2.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<2.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<2.0	ug/l	Y Cov	GEO40
2-Methylphenol	<2.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	9.8	ug/l	N Cov	GEO40
Dibenzofuran	<2.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<2.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<2.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<2.0	ug/l	Y Cov	GEO40
Hexachloroethane	<2.0	ug/l	Y Cov	GEO40
Nitrobenzene	<2.0	ug/l	Y Cov	GEO40
Isophorone	<2.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<2.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<2.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<2.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<2.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<2.0	ug/l	Y Cov	GEO40
Naphthalene	<4.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<2.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<2.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<2.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<2.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<2.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<2.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<2.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<2.0	ug/l	Y Cov	GEO40
Acenaphthylene	<2.0	ug/l	Y Cov	GEO40
Acenaphthene	<2.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<2.0	ug/l	Y Cov	GEO40
Diethylphthalate	<2.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<10.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<2.0	ug/l	Y Cov	GEO40

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/813012/2011**

Issue **2**

Laboratory Number: **12652185**

Sample **3** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 10:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<2.0	ug/l	Y Cov	GEO40
Diphenylamine	<2.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<2.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<2.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<2.0	ug/l	Y Cov	GEO40
Phenanthrene	<2.0	ug/l	Y Cov	GEO40
Anthracene	<2.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<2.0	ug/l	Y Cov	GEO40
Fluoranthene	<2.0	ug/l	Y Cov	GEO40
Pyrene	<2.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<2.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<2.0	ug/l	Y Cov	GEO40
Chrysene	<2.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<10.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<2.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<2.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<2.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<2.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<2.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<2.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<2.0	ug/l	Y Cov	GEO40
2-Fluorophenol	83.7	%Recovery	N Cov	GEO40
Phenol-d6	98.6	%Recovery	N Cov	GEO40
Nitrobenzene-d5	89.4	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	84.0	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	101.7	%Recovery	N Cov	GEO40
Terphenyl-d14	71.3	%Recovery	N Cov	GEO40
Selenium, Total as Se	<0.0016	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0042	mg/l	Y Cov	WAS051
Methane, Dissolved	13	mg/l	N Cov	62

Analyst Comments for 12652185:

Severn Trent Services

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



This sample has been analysed for VOC Waters method GEO32, Aluminium, Total as Al, Copper, Total as Cu, Sodium Total as Na, Cyanide, total as CN, TOC (Filtered) 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
The ferrous iron analysis was not carried out on site and there is the possibility of change in the ferrous-ferric ratio between sampling and analysis.
Reporting limits raised for GCMSMS Pesticide results due to nature of sample matrix. Result for Dichlorvos is unavailable due to AQC breach. Raised reporting limits for SVOC's due to sample
VOC reporting limits raised due to nature of sample matrix.
Reporting limit raised for 1,2-dibromo-3-chloropropane to 25ug/l due to instrument sensitivity issues.
Result for dichlorodifluoromethane, chloromethane and cis-1,3-dichloropropane given as estimates of <5ug/L due to QC breaches.

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: 11 November 2011
	Title: Chemistry Operations Manager	

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652186**

Sample **4** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 2 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 10:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.049	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.011	mg/l	Y Cov	WAS049
Zinc, Total as Zn	<0.003	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	89.3	mg/l	Y Cov	WAS036
Sulphide as S	0.040	mg/l	Y Cov	WAS033

Analyst Comments for 12652186:

This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu, Zinc, Total as Zn outside recommended stability times. It is therefore possible that the results provided may be compromised. 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: **11 November 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/813012/2011**

Issue **2**

Laboratory Number: **12652187**

Sample **5** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 17**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 11:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	3.65	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.911	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0006	mg/l	Y Cov	WAS049
Calcium , Total as Ca	311	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0043	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.018	mg/l	Y Cov	WAS049
Iron , Total as Fe	51.2	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	<0.19	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	12.0	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	2.6	mg/l	N Cov	CALC
Lead , Total as Pb	0.024	mg/l	Y Cov	WAS049
Manganese , Total as Mn	11.3	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.028	mg/l	Y Cov	WAS049
Potassium , Total as K	120	mg/l	Y Cov	WAS049
Sodium , Total as Na	257	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.058	mg/l	Y Cov	WAS049
pH	7.0	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	3950	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	1740	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	136	mg/l	Y Cov	WAS036
Chloride as Cl	481	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
Phosphate, Ortho as P	<0.08	mg/l	Y Cov	WAS036
Sulphate as SO4	64.6	mg/l	Y Cov	WAS036
Suspended Solids	362	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	15	mg/l	Y Cov	WAS001
COD (1 hr settled)	317	mg/l	Y Cov	WAS040
TOC (Filtered)	66.1	mg/l	Y Cov	WAS005
Cyanide, Total as CN	<10	ug/l	Y Cov	WAS018

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

SEVERN
TRENT
SERVICES

Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652187**

Sample **5** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 17**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 11:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.040	mg/l	Y Cov	WAS033
Fluoride as F	0.4	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
Aldrin	<16	ng/l	Y Cov	GEO47
alpha-Endosulphan	<16	ng/l	Y Cov	GEO47
alpha-HCH	<12	ng/l	Y Cov	GEO47
beta-Endosulphan	<16	ng/l	Y Cov	GEO47
beta-HCH	<12	ng/l	Y Cov	GEO47
alpha-Chlordane	<8	ng/l	Y Cov	GEO47
Dichlobenil	19	ng/l	Y Cov	GEO47
Dieldrin	<16	ng/l	Y Cov	GEO47
Endrin	<16	ng/l	N Cov	GEO47
gamma-HCH	<12	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<8	ng/l	Y Cov	GEO47
Hexachlorobenzene	<8	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<28	ng/l	Y Cov	GEO47
Isodrin	<16	ng/l	Y Cov	GEO47
o,p - DDE	<8	ng/l	Y Cov	GEO47
p,p - DDE	<8	ng/l	Y Cov	GEO47
o,p - TDE	<8	ng/l	Y Cov	GEO47
p,p - TDE	<8	ng/l	Y Cov	GEO47
o,p - DDT	<8	ng/l	Y Cov	GEO47
p,p - DDT	<8	ng/l	Y Cov	GEO47
Tecnazene	<40	ng/l	Y Cov	GEO47
gamma-Chlordane	<16	ng/l	Y Cov	GEO47
Triallate	<40	ng/l	Y Cov	GEO47
Trifluralin	<120	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.016	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.008	ug/l	Y Cov	GEO47
Carbophenothion	<0.012	ug/l	Y Cov	GEO47

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/813012/2011**

Issue **2**

Laboratory Number: **12652187**

Sample **5** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 17**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 11:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.008	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.008	ug/l	Y Cov	GEO47
Diazinon	<0.012	ug/l	Y Cov	GEO47
Dichlorvos	Analyst Comment	ug/l	Y Cov	GEO47
Dimethoate	<0.080	ug/l	Y Cov	GEO47
Fenitrothion	<0.008	ug/l	Y Cov	GEO47
Fenthion	<0.008	ug/l	Y Cov	GEO47
Malathion	<0.016	ug/l	Y Cov	GEO47
Mevinphos	<0.080	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.012	ug/l	Y Cov	GEO47
Parathion-methyl	<0.012	ug/l	Y Cov	GEO47
Phorate	<0.016	ug/l	Y Cov	GEO47
Phosalone	<0.016	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.020	ug/l	Y Cov	GEO47
Propetamphos	<0.012	ug/l	Y Cov	GEO47
Triazophos	<0.008	ug/l	Y Cov	GEO47
Atrazine	<0.080	ug/l	Y Cov	GEO47
Prometryne	<0.080	ug/l	Y Cov	GEO47
Propazine	<0.080	ug/l	Y Cov	GEO47
Simazine	<0.080	ug/l	Y Cov	GEO47
Terbutryn	<0.080	ug/l	Y Cov	GEO47
Trietazine	<0.040	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	Analyst Comment	ug/l	Y Cov	GEO32
Chloromethane	Analyst Comment	ug/l	Y Cov	GEO32

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/813012/2011**

Issue **2**

Laboratory Number: **12652187**

Sample **5** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 17**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 11:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<5.0	ug/l	Y Cov	GEO32
Bromomethane	<5.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<5.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<5.0	ug/l	Y Cov	GEO32
Dichloromethane	<5.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<5.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<5.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<5.0	ug/l	Y Cov	GEO32
Chloroform	<5.0	ug/l	Y Cov	GEO32
Bromochloromethane	<5.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<5.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<5.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<5.0	ug/l	Y Cov	GEO32
Benzene	<5.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<5.0	ug/l	Y Cov	GEO32
Trichloroethene	<5.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<5.0	ug/l	Y Cov	GEO32
Dibromomethane	<5.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	Analyst Comment	ug/l	Y Cov	GEO32
Toluene	<5.0	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<5.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<5.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<5.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<2.5	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<5.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<5.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<5.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<5.0	ug/l	Y Cov	GEO32
Chlorobenzene	<5.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<5.0	ug/l	Y Cov	GEO32
Ethyl Benzene	12.5	ug/l	Y Cov	GEO32
m&p-Xylene	8.6	ug/l	Y Cov	GEO32

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/813012/2011**

Issue **2**

Laboratory Number: **12652187**

Sample **5** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 17**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 11:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	<5.0	ug/l	Y Cov	GEO32
Styrene	<5.0	ug/l	Y Cov	GEO32
Bromoform	<5.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<5.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<5.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<5.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<5.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<5.0	ug/l	Y Cov	GEO32
Bromobenzene	<5.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<5.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<5.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<5.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<5.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	<5.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<5.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<5.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<5.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<5.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<5.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<5.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<25.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<5.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<5.0	ug/l	Y Cov	GEO32
Naphthalene	<5.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<5.0	ug/l	Y Cov	GEO32
MTBE	<5.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	102.0	%Recovery	N Cov	GEO32
Toluene-d8	99.0	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	95.0	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<4.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	Y Cov	GEO40

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/813012/2011**

Issue **2**

Laboratory Number: **12652187**

Sample **5** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 17**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 11:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<4.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	<4.0	ug/l	N Cov	GEO40
Dibenzofuran	<4.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<4.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<4.0	ug/l	Y Cov	GEO40
Hexachloroethane	<4.0	ug/l	Y Cov	GEO40
Nitrobenzene	<4.0	ug/l	Y Cov	GEO40
Isophorone	<4.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<4.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<4.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<4.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<4.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<4.0	ug/l	Y Cov	GEO40
Naphthalene	<8.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<4.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<4.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<4.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<4.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<4.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<4.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<4.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<4.0	ug/l	Y Cov	GEO40
Acenaphthylene	<4.0	ug/l	Y Cov	GEO40
Acenaphthene	<4.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<4.0	ug/l	Y Cov	GEO40
Diethylphthalate	<4.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<20.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<4.0	ug/l	Y Cov	GEO40

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

SEVERN
TRENT
SERVICES

Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652187**

Sample **5** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 17**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 11:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<4.0	ug/l	Y Cov	GEO40
Diphenylamine	<4.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<4.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<4.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<4.0	ug/l	Y Cov	GEO40
Phenanthrene	<4.0	ug/l	Y Cov	GEO40
Anthracene	<4.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<4.0	ug/l	Y Cov	GEO40
Fluoranthene	<4.0	ug/l	Y Cov	GEO40
Pyrene	<4.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<4.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<4.0	ug/l	Y Cov	GEO40
Chrysene	<4.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<20.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<4.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<4.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<4.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<4.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<4.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<4.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<4.0	ug/l	Y Cov	GEO40
2-Fluorophenol	91.3	%Recovery	N Cov	GEO40
Phenol-d6	78.2	%Recovery	N Cov	GEO40
Nitrobenzene-d5	90.4	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	84.2	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	97.8	%Recovery	N Cov	GEO40
Terphenyl-d14	92.9	%Recovery	N Cov	GEO40
Selenium, Total as Se	<0.0016	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0071	mg/l	Y Cov	WAS051
Methane, Dissolved	12	mg/l	N Cov	62

Analyst Comments for 12652187:

Severn Trent Services


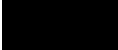
Analytical Services, Torrington Avenue, Coventry, CV4 9GU
Tel:+44 (0)24 7642 1213 Fax:+44 (0)24 7685 6575

The ferrous iron analysis was not carried out on site and there is the possibility of change in the ferrous-ferric ratio between sampling and analysis.
Reporting limits raised for GCMSMS Pesticide results due to nature of sample matrix. Result for Dichlorvos is unavailable due to AQC breach. This sample has been analysed for SVOC's outside recommended stability times. It is therefore possible that the results provided may be compromised. Raised reporting limits for SVOC's due to sample matrix.
VOC reporting limits raised due to nature of sample matrix.
Reporting limit raised for 1,2-dibromo-3-chloropropane to 25ug/l due to instrument sensitivity issues.
Result for dichlorodifluoromethane, chloromethane and cis-1,3-dichloropropane given as estimates of <5ug/L due to QC breaches.

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: 11 November 2011
	Title: Chemistry Operations Manager	

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652188**

Sample **6** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 17 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 11:30**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.040	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.002	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.006	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	135	mg/l	Y Cov	WAS036
Sulphide as S	0.040	mg/l	Y Cov	WAS033

Analyst Comments for 12652188:

This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu, Zinc, Total as Zn outside recommended stability times. It is therefore possible that the results provided may be compromised. 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: **11 November 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/813012/2011**

Issue **2**

Laboratory Number: **12652189**

Sample **7** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 12:15**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	<0.20	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.232	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	Y Cov	WAS049
Calcium , Total as Ca	186	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0227	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.009	mg/l	Y Cov	WAS049
Iron , Total as Fe	32.0	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	6.70	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	29.1	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.035	mg/l	Y Cov	WAS049
Manganese , Total as Mn	1.42	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.133	mg/l	Y Cov	WAS049
Potassium , Total as K	769	mg/l	Y Cov	WAS049
Sodium , Total as Na	968	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.064	mg/l	Y Cov	WAS049
pH	7.6	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	12000	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	5290	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	883	mg/l	Y Cov	WAS055
Chloride as Cl	1430	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
Phosphate, Ortho as P	2.83	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	3.41	mg/l	Y Cov	CON27
Suspended Solids	104	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	98	mg/l	Y Cov	WAS001
COD (1 hr settled)	1340	mg/l	Y Cov	WAS040
TOC (Filtered)	305	mg/l	Y Cov	WAS005
Cyanide, Total as CN	<10	ug/l	Y Cov	WAS018

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

SEVERN
TRENT
SERVICES

Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652189**

Sample **7** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 12:15**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	<0.029	mg/l	Y Cov	WAS033
Fluoride as F	0.9	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
Aldrin	<16	ng/l	Y Cov	GEO47
alpha-Endosulphan	<16	ng/l	Y Cov	GEO47
alpha-HCH	<12	ng/l	Y Cov	GEO47
beta-Endosulphan	<16	ng/l	Y Cov	GEO47
beta-HCH	<75	ng/l	Y Cov	GEO47
alpha-Chlordane	<8	ng/l	Y Cov	GEO47
Dichlobenil	86	ng/l	Y Cov	GEO47
Dieldrin	<16	ng/l	Y Cov	GEO47
Endrin	<16	ng/l	N Cov	GEO47
gamma-HCH	<75	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<8	ng/l	Y Cov	GEO47
Hexachlorobenzene	<8	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<28	ng/l	Y Cov	GEO47
Isodrin	<16	ng/l	Y Cov	GEO47
o,p - DDE	<8	ng/l	Y Cov	GEO47
p,p - DDE	<8	ng/l	Y Cov	GEO47
o,p - TDE	<8	ng/l	Y Cov	GEO47
p,p - TDE	<8	ng/l	Y Cov	GEO47
o,p - DDT	<8	ng/l	Y Cov	GEO47
p,p - DDT	<8	ng/l	Y Cov	GEO47
Tecnazene	<40	ng/l	Y Cov	GEO47
gamma-Chlordane	<16	ng/l	Y Cov	GEO47
Triallate	<40	ng/l	Y Cov	GEO47
Trifluralin	<120	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.016	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.008	ug/l	Y Cov	GEO47
Carbophenothion	<0.012	ug/l	Y Cov	GEO47

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/813012/2011**

Issue **2**

Laboratory Number: **12652189**

Sample **7** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 12:15**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.008	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.008	ug/l	Y Cov	GEO47
Diazinon	0.021	ug/l	Y Cov	GEO47
Dichlorvos	Analyst Comment	ug/l	Y Cov	GEO47
Dimethoate	<0.080	ug/l	Y Cov	GEO47
Fenitrothion	<0.008	ug/l	Y Cov	GEO47
Fenthion	<0.008	ug/l	Y Cov	GEO47
Malathion	<0.016	ug/l	Y Cov	GEO47
Mevinphos	<0.080	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.012	ug/l	Y Cov	GEO47
Parathion-methyl	<0.012	ug/l	Y Cov	GEO47
Phorate	<0.016	ug/l	Y Cov	GEO47
Phosalone	<0.016	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.020	ug/l	Y Cov	GEO47
Propetamphos	<0.012	ug/l	Y Cov	GEO47
Triazophos	<0.008	ug/l	Y Cov	GEO47
Atrazine	<0.080	ug/l	Y Cov	GEO47
Prometryne	0.128	ug/l	Y Cov	GEO47
Propazine	<0.080	ug/l	Y Cov	GEO47
Simazine	0.307	ug/l	Y Cov	GEO47
Terbutryn	<0.080	ug/l	Y Cov	GEO47
Trietazine	<0.040	ug/l	Y Cov	GEO47
Acetic acid	22.8	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	22.8	mg/l	Y Cov	CON17
VOC	y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	Analyst Comment	ug/l	Y Cov	GEO32
Chloromethane	Analyst Comment	ug/l	Y Cov	GEO32

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/813012/2011**

Issue **2**

Laboratory Number: **12652189**

Sample **7** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 12:15**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<10.0	ug/l	Y Cov	GEO32
Bromomethane	<10.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<10.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<10.0	ug/l	Y Cov	GEO32
Dichloromethane	<10.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<10.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<10.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<10.0	ug/l	Y Cov	GEO32
Chloroform	<10.0	ug/l	Y Cov	GEO32
Bromochloromethane	<10.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<10.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<10.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<10.0	ug/l	Y Cov	GEO32
Benzene	<10.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<10.0	ug/l	Y Cov	GEO32
Trichloroethene	<10.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<10.0	ug/l	Y Cov	GEO32
Dibromomethane	<10.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	Analyst Comment	ug/l	Y Cov	GEO32
Toluene	16.7	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<10.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<10.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<10.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<5.0	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<10.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<10.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<10.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<10.0	ug/l	Y Cov	GEO32
Chlorobenzene	<10.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<10.0	ug/l	Y Cov	GEO32
Ethyl Benzene	<10.0	ug/l	Y Cov	GEO32
m&p-Xylene	26.0	ug/l	Y Cov	GEO32

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/813012/2011**

Issue **2**

Laboratory Number: **12652189**

Sample **7** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 12:15**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	26.1	ug/l	Y Cov	GEO32
Styrene	<10.0	ug/l	Y Cov	GEO32
Bromoform	<10.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<10.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<10.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<10.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<10.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<10.0	ug/l	Y Cov	GEO32
Bromobenzene	<10.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<10.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<10.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<10.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	<10.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<10.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<50.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<10.0	ug/l	Y Cov	GEO32
Naphthalene	<10.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO32
MTBE	<10.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	100.0	%Recovery	N Cov	GEO32
Toluene-d8	99.8	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	93.9	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<10.0	ug/l	Y Cov	GEO40

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/813012/2011**

Issue **2**

Laboratory Number: **12652189**

Sample **7** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 12:15**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<10.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
2-Methylphenol	<10.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	75.0	ug/l	N Cov	GEO40
Dibenzofuran	<10.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<10.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<10.0	ug/l	Y Cov	GEO40
Hexachloroethane	<10.0	ug/l	Y Cov	GEO40
Nitrobenzene	<10.0	ug/l	Y Cov	GEO40
Isophorone	<10.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	17.2	ug/l	Y Cov	GEO40
2-Nitrophenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<10.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<10.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Naphthalene	<20.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<10.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<10.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<10.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<10.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<10.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Acenaphthylene	<10.0	ug/l	Y Cov	GEO40
Acenaphthene	<10.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Diethylphthalate	<10.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<50.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<10.0	ug/l	Y Cov	GEO40

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

SEVERN
TRENT
SERVICES

Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652189**

Sample **7** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 12:15**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<10.0	ug/l	Y Cov	GEO40
Diphenylamine	<10.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<10.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<10.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<10.0	ug/l	Y Cov	GEO40
Phenanthrene	<10.0	ug/l	Y Cov	GEO40
Anthracene	<10.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<10.0	ug/l	Y Cov	GEO40
Fluoranthene	<10.0	ug/l	Y Cov	GEO40
Pyrene	<10.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<10.0	ug/l	Y Cov	GEO40
Chrysene	<10.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<50.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<10.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<10.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<10.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<10.0	ug/l	Y Cov	GEO40
2-Fluorophenol	79.9	%Recovery	N Cov	GEO40
Phenol-d6	93.0	%Recovery	N Cov	GEO40
Nitrobenzene-d5	85.2	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	83.1	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	97.9	%Recovery	N Cov	GEO40
Terphenyl-d14	85.9	%Recovery	N Cov	GEO40
Selenium, Total as Se	<0.0016	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0146	mg/l	Y Cov	WAS051
Methane, Dissolved	7.7	mg/l	N Cov	62

Analyst Comments for 12652189:

Severn Trent Services

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

This sample has been analysed for VOC Waters method GEO32, Aluminium, Total as Al, Copper, Total as Cu, Sodium Total as Na, Cyanide, total as CN, TOC (Filtered) outside recommended stability times. It is therefore possible that the results provided may be compromised.

The ferrous iron analysis was not carried out on site and there is the possibility of change in the ferrous-ferric ratio between sampling and analysis.

Reporting limits raised for GCMSMS Pesticide results due to nature of sample matrix. Reporting limits raised further for b-HCH and g-HCH due to matrix interference. Result for Dichlorvos is unavailable due to AQC breach. Raised reporting limits for SVOC's due to sample VOC reporting limits raised due to nature of sample matrix.


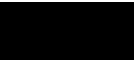
Reporting limit raised for 1,2-dibromo-3-chloropropane to 50ug/l due to instrument sensitivity issues. Result for dichlorodifluoromethane, chloromethane and cis-1,3-dichloropropane given as estimates of <10ug/L due to QC breaches.

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: 11 November 2011
	Title: Chemistry Operations Manager	

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652190**

Sample **8** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 12:15**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.103	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.013	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.038	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	911	mg/l	Y Cov	WAS055
Sulphide as S	0.040	mg/l	Y Cov	WAS033

Analyst Comments for 12652190:



This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu, Zinc, Total as Zn 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: 11 November 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/813012/2011**

Issue **2**

Laboratory Number: **12652191**

Sample **9** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 15**

Sample Matrix: **Ground waters**

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

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	0.559	mg/l	Y Cov	CON27
Aluminium, Total as Al	4.44	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0047	mg/l	Y Cov	WAS049
Calcium , Total as Ca	274	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0093	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.027	mg/l	Y Cov	WAS049
Iron , Total as Fe	90.2	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	3.85	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	23.6	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	254	mg/l	N Cov	CALC
Lead , Total as Pb	0.086	mg/l	Y Cov	WAS049
Manganese , Total as Mn	64.4	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.904	mg/l	Y Cov	WAS049
Potassium , Total as K	17.5	mg/l	Y Cov	WAS049
Sodium , Total as Na	31.3	mg/l	Y Cov	WAS049
Zinc, Total as Zn	3.89	mg/l	Y Cov	WAS049
pH	6.1	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	3240	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	<2.2	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	3.31	mg/l	Y Cov	WAS036
Chloride as Cl	65.3	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
Phosphate, Ortho as P	0.12	mg/l	Y Cov	WAS036
Sulphate as SO4	2280	mg/l	Y Cov	WAS036
Suspended Solids	1990	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	33	mg/l	Y Cov	WAS001
COD (1 hr settled)	207	mg/l	Y Cov	WAS040
TOC (Filtered)	3.64	mg/l	Y Cov	WAS005
Cyanide, Total as CN	<10	ug/l	Y Cov	WAS018

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/813012/2011**

Issue **2**

Laboratory Number: **12652191**

Sample **9** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 15**

Sample Matrix: **Ground waters**

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

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.290	mg/l	Y Cov	WAS033
Fluoride as F	0.3	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
Aldrin	<16	ng/l	Y Cov	GEO47
alpha-Endosulphan	<16	ng/l	Y Cov	GEO47
alpha-HCH	<12	ng/l	Y Cov	GEO47
beta-Endosulphan	<16	ng/l	Y Cov	GEO47
beta-HCH	<12	ng/l	Y Cov	GEO47
alpha-Chlordane	<8	ng/l	Y Cov	GEO47
Dichlobenil	<8	ng/l	Y Cov	GEO47
Dieldrin	<16	ng/l	Y Cov	GEO47
Endrin	<16	ng/l	N Cov	GEO47
gamma-HCH	<12	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<8	ng/l	Y Cov	GEO47
Hexachlorobenzene	<8	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<28	ng/l	Y Cov	GEO47
Isodrin	<16	ng/l	Y Cov	GEO47
o,p - DDE	<8	ng/l	Y Cov	GEO47
p,p - DDE	<8	ng/l	Y Cov	GEO47
o,p - TDE	<8	ng/l	Y Cov	GEO47
p,p - TDE	<8	ng/l	Y Cov	GEO47
o,p - DDT	<8	ng/l	Y Cov	GEO47
p,p - DDT	<8	ng/l	Y Cov	GEO47
Tecnazene	<40	ng/l	Y Cov	GEO47
gamma-Chlordane	<16	ng/l	Y Cov	GEO47
Triallate	<40	ng/l	Y Cov	GEO47
Trifluralin	<120	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.016	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.008	ug/l	Y Cov	GEO47
Carbophenothion	<0.012	ug/l	Y Cov	GEO47

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/813012/2011**

Issue **2**

Laboratory Number: **12652191**

Sample **9** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 15**

Sample Matrix: **Ground waters**

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

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.008	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.008	ug/l	Y Cov	GEO47
Diazinon	<0.012	ug/l	Y Cov	GEO47
Dichlorvos	Analyst Comment	ug/l	Y Cov	GEO47
Dimethoate	<0.080	ug/l	Y Cov	GEO47
Fenitrothion	<0.008	ug/l	Y Cov	GEO47
Fenthion	<0.008	ug/l	Y Cov	GEO47
Malathion	<0.016	ug/l	Y Cov	GEO47
Mevinphos	<0.080	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.012	ug/l	Y Cov	GEO47
Parathion-methyl	<0.012	ug/l	Y Cov	GEO47
Phorate	<0.016	ug/l	Y Cov	GEO47
Phosalone	<0.016	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.020	ug/l	Y Cov	GEO47
Propetamphos	<0.012	ug/l	Y Cov	GEO47
Triazophos	<0.008	ug/l	Y Cov	GEO47
Atrazine	<0.080	ug/l	Y Cov	GEO47
Prometryne	<0.080	ug/l	Y Cov	GEO47
Propazine	<0.080	ug/l	Y Cov	GEO47
Simazine	<0.080	ug/l	Y Cov	GEO47
Terbutryn	<0.080	ug/l	Y Cov	GEO47
Trietazine	<0.040	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	Analyst Comment	ug/l	Y Cov	GEO32
Chloromethane	Analyst Comment	ug/l	Y Cov	GEO32

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/813012/2011**

Issue **2**

Laboratory Number: **12652191**

Sample **9** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 15**

Sample Matrix: **Ground waters**

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

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<1.0	ug/l	Y Cov	GEO32
Bromomethane	<1.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Dichloromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Chloroform	<1.0	ug/l	Y Cov	GEO32
Bromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
Benzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Trichloroethene	<1.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<1.0	ug/l	Y Cov	GEO32
Dibromomethane	<1.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	Analyst Comment	ug/l	Y Cov	GEO32
Toluene	<1.0	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<1.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<0.5	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<1.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<1.0	ug/l	Y Cov	GEO32
Chlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
Ethyl Benzene	<1.0	ug/l	Y Cov	GEO32
m&p-Xylene	<1.0	ug/l	Y Cov	GEO32

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

SEVERN
TRENT
SERVICES

Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652191**

Sample **9** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 15**

Sample Matrix: **Ground waters**

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

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	<1.0	ug/l	Y Cov	GEO32
Styrene	<1.0	ug/l	Y Cov	GEO32
Bromoform	<1.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<1.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<1.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<1.0	ug/l	Y Cov	GEO32
Bromobenzene	<1.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<1.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	<1.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<1.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<5.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<1.0	ug/l	Y Cov	GEO32
Naphthalene	<1.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
MTBE	<1.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	100.2	%Recovery	N Cov	GEO32
Toluene-d8	98.8	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	93.1	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<1.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	Y Cov	GEO40

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/813012/2011**

Issue **2**

Laboratory Number: **12652191**

Sample **9** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 15**

Sample Matrix: **Ground waters**

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

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<1.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<1.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	Y Cov	GEO40
Isophorone	<1.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO40
Naphthalene	<2.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	Y Cov	GEO40

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

SEVERN
TRENT
SERVICES

Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652191**

Sample **9** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 15**

Sample Matrix: **Ground waters**

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

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<1.0	ug/l	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	Y Cov	GEO40
Anthracene	<1.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	Y Cov	GEO40
Fluoranthene	<1.0	ug/l	Y Cov	GEO40
Pyrene	<1.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	Y Cov	GEO40
Chrysene	<1.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	Y Cov	GEO40
2-Fluorophenol	81.0	%Recovery	N Cov	GEO40
Phenol-d6	83.1	%Recovery	N Cov	GEO40
Nitrobenzene-d5	85.2	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	82.9	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	97.3	%Recovery	N Cov	GEO40
Terphenyl-d14	77.2	%Recovery	N Cov	GEO40
Selenium, Total as Se	<0.0016	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0118	mg/l	Y Cov	WAS051
Methane, Dissolved	0.053	mg/l	N Cov	62

Analyst Comments for 12652191:

Severn Trent Services

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

This sample has been analysed for VOC Waters method GEO32, Aluminium, Total as Al, Copper, Total as Cu, Sodium Total as Na, Cyanide, total as CN, TOC (Filtered) outside recommended stability times. It is therefore possible that the results provided may be compromised. The ferrous iron analysis was not carried out on site and there is the possibility of change in the ferrous-ferric ratio between sampling and analysis.

Reporting limits raised for GCMSMS Pesticide results due to nature of sample matrix. Result for Dichlorvos is unavailable due to AQC breach.



Reporting limit raised for 1,2-dibromo-3-chloropropane to 5ug/l due to instrument sensitivity issues.

Result for dichlorodifluoromethane, chloromethane and cis-1,3-dichloropropane given as estimates of <1ug/L due to QC breaches.

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: 11 November 2011
	Title: Chemistry Operations Manager	

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652192**

Sample **10** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 15 Filtered**

Sample Matrix: **Ground waters**

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

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.059	mg/l	Y Cov	WAS049
Copper, Total as Cu	<0.003	mg/l	Y Cov	WAS049
Zinc, Total as Zn	5.15	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	2.48	mg/l	Y Cov	WAS036
Sulphide as S	0.230	mg/l	Y Cov	WAS033

Analyst Comments for 12652192:

This sample has been analysed for Aluminium, Total as Al, Copper, Total as Cu, Zinc, Total as Zn outside recommended stability times. It is therefore possible that the results provided may be compromised. 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: **11 November 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/813012/2011**

Issue **2**

Laboratory Number: **12652193**

Sample **11** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:00**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	3.36	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.327	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0146	mg/l	Y Cov	WAS049
Calcium , Total as Ca	82.9	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0120	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.178	mg/l	Y Cov	WAS049
Iron , Total as Fe	8.53	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	<0.19	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	1.0	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.205	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.686	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.045	mg/l	Y Cov	WAS049
Potassium , Total as K	7.52	mg/l	Y Cov	WAS049
Sodium , Total as Na	108	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.080	mg/l	Y Cov	WAS049
pH	7.6	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	1500	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	729	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	6.14	mg/l	Y Cov	WAS036
Chloride as Cl	140	mg/l	Y Cov	WAS036
Nitrite as N	1.2	mg/l	Y Cov	WAS036
Nitrate as N	<0.29	mg/l	Y Cov	WAS036
Phosphate, Ortho as P	<0.08	mg/l	Y Cov	WAS036
Sulphate as SO4	<1.0	mg/l	Y Cov	WAS036
Suspended Solids	125	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	3	mg/l	Y Cov	WAS001
COD (1 hr settled)	94	mg/l	Y Cov	WAS040
TOC (Filtered)	26.6	mg/l	Y Cov	WAS005
Cyanide, Total as CN	<10	ug/l	Y Cov	WAS018

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/813012/2011**

Issue **2**

Laboratory Number: **12652193**

Sample **11** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:00**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	<0.029	mg/l	Y Cov	WAS033
Fluoride as F	0.4	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
Aldrin	<8	ng/l	Y Cov	GEO47
alpha-Endosulphan	<8	ng/l	Y Cov	GEO47
alpha-HCH	<6	ng/l	Y Cov	GEO47
beta-Endosulphan	<8	ng/l	Y Cov	GEO47
beta-HCH	<6	ng/l	Y Cov	GEO47
alpha-Chlordane	<4	ng/l	Y Cov	GEO47
Dichlobenil	<4	ng/l	Y Cov	GEO47
Dieldrin	<8	ng/l	Y Cov	GEO47
Endrin	<8	ng/l	N Cov	GEO47
gamma-HCH	<6	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	Y Cov	GEO47
Hexachlorobenzene	<4	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<14	ng/l	Y Cov	GEO47
Isodrin	<8	ng/l	Y Cov	GEO47
o,p - DDE	<4	ng/l	Y Cov	GEO47
p,p - DDE	<4	ng/l	Y Cov	GEO47
o,p - TDE	<4	ng/l	Y Cov	GEO47
p,p - TDE	<4	ng/l	Y Cov	GEO47
o,p - DDT	<4	ng/l	Y Cov	GEO47
p,p - DDT	<4	ng/l	Y Cov	GEO47
Tecnazene	<20	ng/l	Y Cov	GEO47
gamma-Chlordane	<8	ng/l	Y Cov	GEO47
Triallate	<20	ng/l	Y Cov	GEO47
Trifluralin	<60	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.008	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.004	ug/l	Y Cov	GEO47
Carbophenothion	<0.006	ug/l	Y Cov	GEO47

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

SEVERN
TRENT
SERVICES

Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652193**

Sample **11** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:00**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.004	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.004	ug/l	Y Cov	GEO47
Diazinon	<0.006	ug/l	Y Cov	GEO47
Dichlorvos	Analyst Comment	ug/l	Y Cov	GEO47
Dimethoate	<0.040	ug/l	Y Cov	GEO47
Fenitrothion	<0.004	ug/l	Y Cov	GEO47
Fenthion	<0.004	ug/l	Y Cov	GEO47
Malathion	<0.008	ug/l	Y Cov	GEO47
Mevinphos	<0.040	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.006	ug/l	Y Cov	GEO47
Parathion-methyl	<0.006	ug/l	Y Cov	GEO47
Phorate	<0.008	ug/l	Y Cov	GEO47
Phosalone	<0.008	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.010	ug/l	Y Cov	GEO47
Propetamphos	<0.006	ug/l	Y Cov	GEO47
Triazophos	<0.004	ug/l	Y Cov	GEO47
Atrazine	<0.040	ug/l	Y Cov	GEO47
Prometryne	<0.040	ug/l	Y Cov	GEO47
Propazine	<0.040	ug/l	Y Cov	GEO47
Simazine	<0.040	ug/l	Y Cov	GEO47
Terbutryn	<0.040	ug/l	Y Cov	GEO47
Trietazine	<0.020	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	Analyst Comment	ug/l	Y Cov	GEO32
Chloromethane	Analyst Comment	ug/l	Y Cov	GEO32

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/813012/2011**

Issue **2**

Laboratory Number: **12652193**

Sample **11** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:00**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<1.0	ug/l	Y Cov	GEO32
Bromomethane	<1.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Dichloromethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Chloroform	<1.0	ug/l	Y Cov	GEO32
Bromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<1.0	ug/l	Y Cov	GEO32
Benzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Trichloroethene	<1.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<1.0	ug/l	Y Cov	GEO32
Dibromomethane	<1.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	Analyst Comment	ug/l	Y Cov	GEO32
Toluene	<1.0	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<1.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<1.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<1.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<0.5	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<1.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<1.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<1.0	ug/l	Y Cov	GEO32
Chlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
Ethyl Benzene	<1.0	ug/l	Y Cov	GEO32
m&p-Xylene	<1.0	ug/l	Y Cov	GEO32

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

SEVERN
TRENT
SERVICES

Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652193**

Sample **11** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:00**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	<1.0	ug/l	Y Cov	GEO32
Styrene	<1.0	ug/l	Y Cov	GEO32
Bromoform	<1.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<1.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<1.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<1.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<1.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<1.0	ug/l	Y Cov	GEO32
Bromobenzene	<1.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<1.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<1.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	<1.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<1.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<5.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<1.0	ug/l	Y Cov	GEO32
Naphthalene	<1.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO32
MTBE	<1.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	99.3	%Recovery	N Cov	GEO32
Toluene-d8	100.5	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	94.1	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<1.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	Y Cov	GEO40

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/813012/2011**

Issue **2**

Laboratory Number: **12652193**

Sample **11** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:00**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<1.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<1.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	Y Cov	GEO40
Isophorone	<1.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	Y Cov	GEO40
Naphthalene	<2.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	Y Cov	GEO40

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/813012/2011**

Issue **2**

Laboratory Number: **12652193**

Sample **11** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:00**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<1.0	ug/l	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	Y Cov	GEO40
Anthracene	<1.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	Y Cov	GEO40
Fluoranthene	<1.0	ug/l	Y Cov	GEO40
Pyrene	<1.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	Y Cov	GEO40
Chrysene	<1.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	Y Cov	GEO40
2-Fluorophenol	78.9	%Recovery	N Cov	GEO40
Phenol-d6	78.5	%Recovery	N Cov	GEO40
Nitrobenzene-d5	83.3	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	81.9	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	92.0	%Recovery	N Cov	GEO40
Terphenyl-d14	67.4	%Recovery	N Cov	GEO40
Selenium, Total as Se	<0.0016	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0048	mg/l	Y Cov	WAS051
Methane, Dissolved	7.9	mg/l	N Cov	62

Analyst Comments for 12652193:

Severn Trent Services



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

This sample has been analysed for VOC Waters method GEO32, Ammoniacal Nitrogen as N, Nitrite as N, Nitrate as N, Aluminium, Total as Al, Copper, Total as Cu, Sodium Total as Na, Phosphate, Ortho as P, Cyanide, total as CN, TOC (Filtered) outside recommended stability times. It is therefore possible that the results provided may be compromised. The ferrous iron analysis was not carried out on site and there is the possibility of change in the ferrous-ferric ratio between sampling and analysis.
Result for Dichlorvos is unavailable due to AQC breach.
Reporting limit raised for 1,2-dibromo-3-chloropropane to 5ug/l due to instrument sensitivity issues.
Result for dichlorodifluoromethane, chloromethane and cis-1,3-dichloropropane given as estimates of <1ug/L due to QC breaches.

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: 11 November 2011
	Title: Chemistry Operations Manager	

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652194**

Sample **12** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 8 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:00**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.042	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.003	mg/l	Y Cov	WAS049
Zinc, Total as Zn	<0.003	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	7.90	mg/l	Y Cov	WAS036
Sulphide as S	<0.029	mg/l	Y Cov	WAS033

Analyst Comments for 12652194:

This sample has been analysed for Ammoniacal Nitrogen as N, Aluminium, Total as Al, Copper, Total as Cu, Zinc, Total as Zn outside recommended stability times. It is therefore possible that the results provided may be compromised. 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: **11 November 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/813012/2011**

Issue **2**

Laboratory Number: **12652195**

Sample **13** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:45**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	<0.20	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.786	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	Y Cov	WAS049
Calcium , Total as Ca	297	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0384	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.014	mg/l	Y Cov	WAS049
Iron , Total as Fe	34.2	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	2.89	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	20.4	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	9.6	mg/l	N Cov	CALC
Lead , Total as Pb	0.015	mg/l	Y Cov	WAS049
Manganese , Total as Mn	1.45	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.078	mg/l	Y Cov	WAS049
Potassium , Total as K	439	mg/l	Y Cov	WAS049
Sodium , Total as Na	810	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.071	mg/l	Y Cov	WAS049
pH	7.2	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	8640	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	3520	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	451	mg/l	Y Cov	WAS036
Chloride as Cl	1200	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
Phosphate, Ortho as P	<0.08	mg/l	Y Cov	WAS036
Sulphate as SO4	26.5	mg/l	Y Cov	WAS036
Suspended Solids	174	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	23	mg/l	Y Cov	WAS001
COD (1 hr settled)	1170	mg/l	Y Cov	WAS040
TOC (Filtered)	321	mg/l	Y Cov	WAS005
Cyanide, Total as CN	<10	ug/l	Y Cov	WAS018

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/813012/2011**

Issue **2**

Laboratory Number: **12652195**

Sample **13** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:45**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	<0.029	mg/l	Y Cov	WAS033
Fluoride as F	0.3	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
Aldrin	<16	ng/l	Y Cov	GEO47
alpha-Endosulphan	<16	ng/l	Y Cov	GEO47
alpha-HCH	<12	ng/l	Y Cov	GEO47
beta-Endosulphan	<16	ng/l	Y Cov	GEO47
beta-HCH	<12	ng/l	Y Cov	GEO47
alpha-Chlordane	<8	ng/l	Y Cov	GEO47
Dichlobenil	66	ng/l	Y Cov	GEO47
Dieldrin	<16	ng/l	Y Cov	GEO47
Endrin	<16	ng/l	N Cov	GEO47
gamma-HCH	<12	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<8	ng/l	Y Cov	GEO47
Hexachlorobenzene	<8	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<28	ng/l	Y Cov	GEO47
Isodrin	<16	ng/l	Y Cov	GEO47
o,p - DDE	<8	ng/l	Y Cov	GEO47
p,p - DDE	<8	ng/l	Y Cov	GEO47
o,p - TDE	<8	ng/l	Y Cov	GEO47
p,p - TDE	<8	ng/l	Y Cov	GEO47
o,p - DDT	<8	ng/l	Y Cov	GEO47
p,p - DDT	<8	ng/l	Y Cov	GEO47
Tecnazene	<40	ng/l	Y Cov	GEO47
gamma-Chlordane	<16	ng/l	Y Cov	GEO47
Triallate	<40	ng/l	Y Cov	GEO47
Trifluralin	<120	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.016	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.008	ug/l	Y Cov	GEO47
Carbophenothion	<0.012	ug/l	Y Cov	GEO47

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/813012/2011**

Issue **2**

Laboratory Number: **12652195**

Sample **13** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:45**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.008	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.008	ug/l	Y Cov	GEO47
Diazinon	<0.012	ug/l	Y Cov	GEO47
Dichlorvos	Analyst Comment	ug/l	Y Cov	GEO47
Dimethoate	<0.080	ug/l	Y Cov	GEO47
Fenitrothion	<0.008	ug/l	Y Cov	GEO47
Fenthion	<0.008	ug/l	Y Cov	GEO47
Malathion	<0.016	ug/l	Y Cov	GEO47
Mevinphos	<0.080	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.012	ug/l	Y Cov	GEO47
Parathion-methyl	<0.012	ug/l	Y Cov	GEO47
Phorate	<0.016	ug/l	Y Cov	GEO47
Phosalone	<0.016	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.020	ug/l	Y Cov	GEO47
Propetamphos	<0.012	ug/l	Y Cov	GEO47
Triazophos	<0.008	ug/l	Y Cov	GEO47
Atrazine	<0.080	ug/l	Y Cov	GEO47
Prometryne	<0.080	ug/l	Y Cov	GEO47
Propazine	<0.080	ug/l	Y Cov	GEO47
Simazine	<0.080	ug/l	Y Cov	GEO47
Terbutryn	<0.080	ug/l	Y Cov	GEO47
Trietazine	<0.040	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	Analyst Comment	ug/l	Y Cov	GEO32
Chloromethane	Analyst Comment	ug/l	Y Cov	GEO32

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/813012/2011**

Issue **2**

Laboratory Number: **12652195**

Sample **13** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:45**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<10.0	ug/l	Y Cov	GEO32
Bromomethane	<10.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<10.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<10.0	ug/l	Y Cov	GEO32
Dichloromethane	<10.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<10.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<10.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<10.0	ug/l	Y Cov	GEO32
Chloroform	<10.0	ug/l	Y Cov	GEO32
Bromochloromethane	<10.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<10.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<10.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<10.0	ug/l	Y Cov	GEO32
Benzene	<10.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<10.0	ug/l	Y Cov	GEO32
Trichloroethene	<10.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<10.0	ug/l	Y Cov	GEO32
Dibromomethane	<10.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	Analyst Comment	ug/l	Y Cov	GEO32
Toluene	<10.0	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<10.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<10.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<10.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<5.0	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<10.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<10.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<10.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<10.0	ug/l	Y Cov	GEO32
Chlorobenzene	<10.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<10.0	ug/l	Y Cov	GEO32
Ethyl Benzene	<10.0	ug/l	Y Cov	GEO32
m&p-Xylene	<10.0	ug/l	Y Cov	GEO32

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

SEVERN
TRENT
SERVICES

Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652195**

Sample **13** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:45**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	<10.0	ug/l	Y Cov	GEO32
Styrene	<10.0	ug/l	Y Cov	GEO32
Bromoform	<10.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<10.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<10.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<10.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<10.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<10.0	ug/l	Y Cov	GEO32
Bromobenzene	<10.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<10.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<10.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<10.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	<10.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<10.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<50.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<10.0	ug/l	Y Cov	GEO32
Naphthalene	<10.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO32
MTBE	<10.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	100.2	%Recovery	N Cov	GEO32
Toluene-d8	100.2	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	94.9	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<10.0	ug/l	Y Cov	GEO40

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

SEVERN
TRENT
SERVICES

Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652195**

Sample **13** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:45**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<10.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
2-Methylphenol	<10.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	<10.0	ug/l	N Cov	GEO40
Dibenzofuran	<10.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<10.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<10.0	ug/l	Y Cov	GEO40
Hexachloroethane	<10.0	ug/l	Y Cov	GEO40
Nitrobenzene	<10.0	ug/l	Y Cov	GEO40
Isophorone	<10.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<10.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<10.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<10.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<10.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<10.0	ug/l	Y Cov	GEO40
Naphthalene	<20.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<10.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<10.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<10.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<10.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<10.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<10.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Acenaphthylene	<10.0	ug/l	Y Cov	GEO40
Acenaphthene	<10.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<10.0	ug/l	Y Cov	GEO40
Diethylphthalate	<10.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<50.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<10.0	ug/l	Y Cov	GEO40

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/813012/2011**

Issue **2**

Laboratory Number: **12652195**

Sample **13** of **14**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 2**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:45**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Fluorene	<10.0	ug/l	Y Cov	GEO40
Diphenylamine	<10.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<10.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<10.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<10.0	ug/l	Y Cov	GEO40
Phenanthrene	<10.0	ug/l	Y Cov	GEO40
Anthracene	<10.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<10.0	ug/l	Y Cov	GEO40
Fluoranthene	<10.0	ug/l	Y Cov	GEO40
Pyrene	<10.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<10.0	ug/l	Y Cov	GEO40
Chrysene	<10.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<50.0	ug/l	Y Cov	GEO40
Di-n-octylphthalate	<10.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<10.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<10.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<10.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<10.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<10.0	ug/l	Y Cov	GEO40
2-Fluorophenol	80.6	%Recovery	N Cov	GEO40
Phenol-d6	92.7	%Recovery	N Cov	GEO40
Nitrobenzene-d5	83.6	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	81.9	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	98.1	%Recovery	N Cov	GEO40
Terphenyl-d14	86.5	%Recovery	N Cov	GEO40
Selenium, Total as Se	<0.0016	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0121	mg/l	Y Cov	WAS051
Methane, Dissolved	11	mg/l	N Cov	62

Analyst Comments for 12652195:

Severn Trent Services

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

This sample has been analysed for VOC Waters method GEO32, Ammoniacal Nitrogen as N, Nitrite as N, Nitrate as N, Aluminium, Total as Al, Copper, Total as Cu, Sodium Total as Na, Phosphate, Ortho as P, Cyanide, total as CN, TOC (Filtered) outside recommended stability times. It is therefore possible that the results provided may be compromised. The ferrous iron analysis was not carried out on site and there is the possibility of change in the ferrous-ferric ratio between sampling and analysis.

Reporting limits raised for GCMSMS Pesticide results due to nature of sample matrix. Result for Dichlorvos is unavailable due to AQC breach. Raised reporting limits for SVOC`s due to sample matrix.

VOC reporting limits raised due to nature of sample matrix.

Reporting limit raised for 1,2-dibromo-3-chloropropane to 50ug/l due to instrument sensitivity issues.



Result for dichlorodifluoromethane, chloromethane and cis-1,3-dichloropropane given as estimates of <10ug/L due to QC breaches.

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: 11 November 2011
	Title: Chemistry Operations Manager	

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/813012/2011**

Issue **2**

Laboratory Number: **12652196**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 2 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **13 October 2011 14:45**

Sample Received: **13 October 2011**

Analysis Complete: **11 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.219	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.011	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.021	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	455	mg/l	Y Cov	WAS036
Sulphide as S	0.140	mg/l	Y Cov	WAS033

Analyst Comments for 12652196:

This sample has been analysed for Ammoniacal Nitrogen as N, Aluminium, Total as Al, Copper, Total as Cu, Zinc, Total as Zn 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: **11 November 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