

Analytical Services
Torrington Avenue,
Coventry, CV4 9GU

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

www.stsanalytical.com

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

09 November 2011

Test Report: COV/812688/2011

Dear ██████████

Analysis of your sample(s) submitted on 12 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,

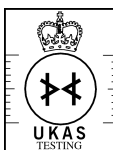
Signed: ██████████

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: **09 November 2011**

Report Number: **COV/812688/2011**

Issue **2**

Job Description: Stoneyhill Landfill Monitoring

Job Location: Stoneyhill Landfill Monitoring

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

Job Received: **12 October 2011**

Number of Test Results
included in this report **1808**

Analysis Commenced: **12 October 2011**

Signed:

[Redacted Signature]

Name:

[Redacted Name]

Date: **09 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/812688/2011**

Issue **2**

Laboratory Number: **12649862**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 09:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	10.3	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.129	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	Y Cov	WAS049
Calcium , Total as Ca	137	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0449	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.005	mg/l	Y Cov	WAS049
Iron , Total as Fe	9.95	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	2.21	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	7.2	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.008	mg/l	Y Cov	WAS049
Manganese , Total as Mn	1.03	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.103	mg/l	Y Cov	WAS049
Potassium , Total as K	487	mg/l	Y Cov	WAS049
Sodium , Total as Na	923	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.083	mg/l	Y Cov	WAS049
pH	8.0	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	10500	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	3940	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	772	mg/l	Y Cov	WAS055
Chloride as Cl	1580	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	3.2	mg/l	Y Cov	WAS036
Phosphate, Ortho as P	4.02	mg/l	Y Cov	WAS036
Sulphate as SO4	1.9	mg/l	Y Cov	WAS036
Suspended Solids	66.0	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	106	mg/l	Y Cov	WAS001
COD (1 hr settled)	1100	mg/l	Y Cov	WAS040
TOC (Filtered)	282	mg/l	Y Cov	WAS005
Cyanide, Total as CN	11	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/812688/2011**

Issue **2**

Laboratory Number: **12649862**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 09:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<100	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
Aldrin	<40	ng/l	Y Cov	GEO47
alpha-Endosulphan	<40	ng/l	Y Cov	GEO47
alpha-HCH	<30	ng/l	Y Cov	GEO47
beta-Endosulphan	<40	ng/l	Y Cov	GEO47
beta-HCH	<30	ng/l	Y Cov	GEO47
alpha-Chlordane	<20	ng/l	Y Cov	GEO47
Dichlobenil	68	ng/l	Y Cov	GEO47
Dieldrin	<40	ng/l	Y Cov	GEO47
Endrin	<40	ng/l	N Cov	GEO47
gamma-HCH	<30	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<20	ng/l	Y Cov	GEO47
Hexachlorobenzene	<20	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<70	ng/l	Y Cov	GEO47
Isodrin	<40	ng/l	Y Cov	GEO47
o,p - DDE	<20	ng/l	Y Cov	GEO47
p,p - DDE	<20	ng/l	Y Cov	GEO47
o,p - TDE	<20	ng/l	Y Cov	GEO47
p,p - TDE	<20	ng/l	Y Cov	GEO47
o,p - DDT	<20	ng/l	Y Cov	GEO47
p,p - DDT	<20	ng/l	Y Cov	GEO47
Tecnazene	<100	ng/l	Y Cov	GEO47
gamma-Chlordane	<40	ng/l	Y Cov	GEO47
Triallate	<100	ng/l	Y Cov	GEO47
Trifluralin	<300	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.040	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.020	ug/l	Y Cov	GEO47
Carbophenothion	<0.030	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/812688/2011**

Issue **2**

Laboratory Number: **12649862**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 09:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.020	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.020	ug/l	Y Cov	GEO47
Diazinon	<0.030	ug/l	Y Cov	GEO47
Dichlorvos	Analyst Comment	ug/l	Y Cov	GEO47
Dimethoate	<0.200	ug/l	Y Cov	GEO47
Fenitrothion	<0.020	ug/l	Y Cov	GEO47
Fenthion	<0.020	ug/l	Y Cov	GEO47
Malathion	<0.040	ug/l	Y Cov	GEO47
Mevinphos	<0.200	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.030	ug/l	Y Cov	GEO47
Parathion-methyl	<0.030	ug/l	Y Cov	GEO47
Phorate	<0.040	ug/l	Y Cov	GEO47
Phosalone	<0.040	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.050	ug/l	Y Cov	GEO47
Propetamphos	<0.030	ug/l	Y Cov	GEO47
Triazophos	<0.020	ug/l	Y Cov	GEO47
Atrazine	<0.200	ug/l	Y Cov	GEO47
Prometryne	<0.200	ug/l	Y Cov	GEO47
Propazine	<0.200	ug/l	Y Cov	GEO47
Simazine	<0.200	ug/l	Y Cov	GEO47
Terbutryn	<0.200	ug/l	Y Cov	GEO47
Trietazine	<0.100	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	<10.0	ug/l	Y Cov	GEO32
Chloromethane	<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/812688/2011**

Issue **2**

Laboratory Number: **12649862**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 09:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<10.0	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	10.7	ug/l	Y Cov	GEO32
m&p-Xylene	21.0	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/812688/2011**

Issue **2**

Laboratory Number: **12649862**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 09:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<20.0	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	101.5	%Recovery	N Cov	GEO32
Toluene-d8	101.1	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	97.7	%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/812688/2011**

Issue **2**

Laboratory Number: **12649862**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 09:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	15.8	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/812688/2011**

Issue **2**

Laboratory Number: **12649862**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 09:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	90.0	%Recovery	N Cov	GEO40
Phenol-d6	89.5	%Recovery	N Cov	GEO40
Nitrobenzene-d5	98.4	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	94.5	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	96.4	%Recovery	N Cov	GEO40
Terphenyl-d14	91.6	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.0041	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0097	mg/l	Y Cov	WAS051
Methane, Dissolved	4.9	mg/l	N Cov	62

Analyst Comments for 12649862:

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 SVOC Waters method GEO40, Pesticides method GEO47, 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
The sample for Bromide was received in a container inappropriate for this parameter. 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.

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: 09 November 2011
	Title: Chemistry Operations Manager	

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649863**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 09:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.083	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.025	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.024	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	750	mg/l	Y Cov	WAS055
Sulphide as S	0.030	mg/l	Y Cov	WAS033

Analyst Comments for 12649863:

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: **09 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/812688/2011**

Issue **2**

Laboratory Number: **12649864**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 10:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	16.7	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.150	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	Y Cov	WAS049
Calcium , Total as Ca	107	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0634	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.004	mg/l	Y Cov	WAS049
Iron , Total as Fe	1.72	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	1.66	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	1.9	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.009	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.249	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.156	mg/l	Y Cov	WAS049
Potassium , Total as K	628	mg/l	Y Cov	WAS049
Sodium , Total as Na	1340	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.040	mg/l	Y Cov	WAS049
pH	7.8	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	13800	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	4590	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	1020	mg/l	Y Cov	WAS055
Chloride as Cl	2480	mg/l	Y Cov	WAS036
Nitrite as N	<0.006	mg/l	Y Cov	WAS036
Nitrate as N	0.72	mg/l	Y Cov	WAS036
Phosphate, Ortho as P	5.31	mg/l	Y Cov	WAS036
Sulphate as SO4	34.9	mg/l	Y Cov	WAS036
Suspended Solids	36.0	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	100	mg/l	Y Cov	WAS001
COD (1 hr settled)	1620	mg/l	Y Cov	WAS040
TOC (Filtered)	364	mg/l	Y Cov	WAS005
Cyanide, Total as CN	12	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/812688/2011**

Issue **2**

Laboratory Number: **12649864**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 10:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	<0.029	mg/l	Y Cov	WAS033
Fluoride as F	1.2	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	101	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
Aldrin	<40	ng/l	Y Cov	GEO47
alpha-Endosulphan	<40	ng/l	Y Cov	GEO47
alpha-HCH	<30	ng/l	Y Cov	GEO47
beta-Endosulphan	<40	ng/l	Y Cov	GEO47
beta-HCH	<30	ng/l	Y Cov	GEO47
alpha-Chlordane	<20	ng/l	Y Cov	GEO47
Dichlobenil	125	ng/l	Y Cov	GEO47
Dieldrin	<40	ng/l	Y Cov	GEO47
Endrin	<40	ng/l	N Cov	GEO47
gamma-HCH	<30	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<20	ng/l	Y Cov	GEO47
Hexachlorobenzene	<20	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<70	ng/l	Y Cov	GEO47
Isodrin	<40	ng/l	Y Cov	GEO47
o,p - DDE	<20	ng/l	Y Cov	GEO47
p,p - DDE	<20	ng/l	Y Cov	GEO47
o,p - TDE	<20	ng/l	Y Cov	GEO47
p,p - TDE	<20	ng/l	Y Cov	GEO47
o,p - DDT	<20	ng/l	Y Cov	GEO47
p,p - DDT	<20	ng/l	Y Cov	GEO47
Tecnazene	<100	ng/l	Y Cov	GEO47
gamma-Chlordane	<40	ng/l	Y Cov	GEO47
Triallate	<100	ng/l	Y Cov	GEO47
Trifluralin	<300	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.040	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.020	ug/l	Y Cov	GEO47
Carbophenothion	<0.030	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/812688/2011**

Issue **2**

Laboratory Number: **12649864**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 10:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.020	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.020	ug/l	Y Cov	GEO47
Diazinon	<0.030	ug/l	Y Cov	GEO47
Dichlorvos	Analyst Comment	ug/l	Y Cov	GEO47
Dimethoate	<0.200	ug/l	Y Cov	GEO47
Fenitrothion	<0.020	ug/l	Y Cov	GEO47
Fenthion	<0.020	ug/l	Y Cov	GEO47
Malathion	<0.040	ug/l	Y Cov	GEO47
Mevinphos	<0.200	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.030	ug/l	Y Cov	GEO47
Parathion-methyl	<0.030	ug/l	Y Cov	GEO47
Phorate	<0.040	ug/l	Y Cov	GEO47
Phosalone	<0.040	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.050	ug/l	Y Cov	GEO47
Propetamphos	<0.030	ug/l	Y Cov	GEO47
Triazophos	<0.020	ug/l	Y Cov	GEO47
Atrazine	<0.200	ug/l	Y Cov	GEO47
Prometryne	<0.200	ug/l	Y Cov	GEO47
Propazine	<0.200	ug/l	Y Cov	GEO47
Simazine	<0.200	ug/l	Y Cov	GEO47
Terbutryn	<0.200	ug/l	Y Cov	GEO47
Trietazine	<0.100	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	<10.0	ug/l	Y Cov	GEO32
Chloromethane	<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/812688/2011**

Issue **2**

Laboratory Number: **12649864**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 10:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<10.0	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	32.9	ug/l	Y Cov	GEO32
m&p-Xylene	59.7	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/812688/2011**

Issue **2**

Laboratory Number: **12649864**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 10:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	25.0	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	28.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	14.0	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	<20.0	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	13.2	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	100.3	%Recovery	N Cov	GEO32
Toluene-d8	99.5	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	98.5	%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/812688/2011**

Issue **2**

Laboratory Number: **12649864**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 10:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	19.0	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

SEVERN
TRENT
SERVICES

Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649864**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 10:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	84.3	%Recovery	N Cov	GEO40
Phenol-d6	84.1	%Recovery	N Cov	GEO40
Nitrobenzene-d5	97.4	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	94.0	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	94.3	%Recovery	N Cov	GEO40
Terphenyl-d14	91.8	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.0048	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0107	mg/l	Y Cov	WAS051
Methane, Dissolved	9.8	mg/l	N Cov	62

Analyst Comments for 12649864:

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 SVOC Waters method GEO40, Pesticides method GEO47, 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
The sample for Bromide was received in a container inappropriate for this parameter. 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.
Integrity breach between Fe (Total and 2+), results within 10%.

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: 09 November 2011
	Title: Chemistry Operations Manager	

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649865**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 1 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 10:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.118	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.014	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.024	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	1030	mg/l	Y Cov	WAS055
Sulphide as S	<0.029	mg/l	Y Cov	WAS033

Analyst Comments for 12649865:

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: **09 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/812688/2011**

Issue **2**

Laboratory Number: **12649866**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 11:15**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	11.3	mg/l	Y Cov	CON27
Aluminium, Total as Al	7.56	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0043	mg/l	Y Cov	WAS049
Calcium , Total as Ca	136	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0902	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.007	mg/l	Y Cov	WAS049
Iron , Total as Fe	42.5	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	2.94	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	13.7	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	1.4	mg/l	N Cov	CALC
Lead , Total as Pb	0.398	mg/l	Y Cov	WAS049
Manganese , Total as Mn	1.00	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.092	mg/l	Y Cov	WAS049
Potassium , Total as K	519	mg/l	Y Cov	WAS049
Sodium , Total as Na	672	mg/l	Y Cov	WAS049
Zinc, Total as Zn	1.01	mg/l	Y Cov	WAS049
pH	7.6	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	10000	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	4500	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	<816	mg/l	Y Cov	WAS055
Chloride as Cl	1140	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	1.64	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	20.7	mg/l	Y Cov	CON27
Suspended Solids	1410	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	72	mg/l	Y Cov	WAS001
COD (1 hr settled)	1410	mg/l	Y Cov	WAS040
TOC (Filtered)	317	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/812688/2011**

Issue **2**

Laboratory Number: **12649866**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 11:15**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.040	mg/l	Y Cov	WAS033
Fluoride as F	0.7	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
Aldrin	<40	ng/l	Y Cov	GEO47
alpha-Endosulphan	<40	ng/l	Y Cov	GEO47
alpha-HCH	<30	ng/l	Y Cov	GEO47
beta-Endosulphan	<40	ng/l	Y Cov	GEO47
beta-HCH	<30	ng/l	Y Cov	GEO47
alpha-Chlordane	<20	ng/l	Y Cov	GEO47
Dichlobenil	<20	ng/l	Y Cov	GEO47
Dieldrin	<40	ng/l	Y Cov	GEO47
Endrin	<40	ng/l	N Cov	GEO47
gamma-HCH	<30	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<20	ng/l	Y Cov	GEO47
Hexachlorobenzene	<20	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<70	ng/l	Y Cov	GEO47
Isodrin	<40	ng/l	Y Cov	GEO47
o,p - DDE	<20	ng/l	Y Cov	GEO47
p,p - DDE	<20	ng/l	Y Cov	GEO47
o,p - TDE	<20	ng/l	Y Cov	GEO47
p,p - TDE	<20	ng/l	Y Cov	GEO47
o,p - DDT	<20	ng/l	Y Cov	GEO47
p,p - DDT	<20	ng/l	Y Cov	GEO47
Tecnazene	<100	ng/l	Y Cov	GEO47
gamma-Chlordane	<40	ng/l	Y Cov	GEO47
Triallate	<100	ng/l	Y Cov	GEO47
Trifluralin	<300	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.040	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.020	ug/l	Y Cov	GEO47
Carbophenothion	<0.030	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/812688/2011**

Issue **2**

Laboratory Number: **12649866**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 11:15**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.020	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.020	ug/l	Y Cov	GEO47
Diazinon	<0.030	ug/l	Y Cov	GEO47
Dichlorvos	Analyst Comment	ug/l	Y Cov	GEO47
Dimethoate	<0.200	ug/l	Y Cov	GEO47
Fenitrothion	<0.020	ug/l	Y Cov	GEO47
Fenthion	<0.020	ug/l	Y Cov	GEO47
Malathion	<0.040	ug/l	Y Cov	GEO47
Mevinphos	<0.200	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.030	ug/l	Y Cov	GEO47
Parathion-methyl	<0.030	ug/l	Y Cov	GEO47
Phorate	<0.040	ug/l	Y Cov	GEO47
Phosalone	<0.040	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.050	ug/l	Y Cov	GEO47
Propetamphos	<0.030	ug/l	Y Cov	GEO47
Triazophos	<0.020	ug/l	Y Cov	GEO47
Atrazine	<0.200	ug/l	Y Cov	GEO47
Prometryne	<0.200	ug/l	Y Cov	GEO47
Propazine	<0.200	ug/l	Y Cov	GEO47
Simazine	<0.200	ug/l	Y Cov	GEO47
Terbutryn	<0.200	ug/l	Y Cov	GEO47
Trietazine	<0.100	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	<10.0	ug/l	Y Cov	GEO32
Chloromethane	<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/812688/2011**

Issue **2**

Laboratory Number: **12649866**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 11:15**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<10.0	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	33.5	ug/l	Y Cov	GEO32
m&p-Xylene	64.7	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/812688/2011**

Issue **2**

Laboratory Number: **12649866**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 11:15**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	30.7	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	24.6	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	<20.0	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	100.9	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	97.5	%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/812688/2011**

Issue **2**

Laboratory Number: **12649866**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 11:15**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	107	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

SEVERN
TRENT
SERVICES

Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649866**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 11:15**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	95.9	%Recovery	N Cov	GEO40
Phenol-d6	93.7	%Recovery	N Cov	GEO40
Nitrobenzene-d5	102.9	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	96.0	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	100.5	%Recovery	N Cov	GEO40
Terphenyl-d14	98.9	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.0018	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0332	mg/l	Y Cov	WAS051
Methane, Dissolved	10	mg/l	N Cov	62

Analyst Comments for 12649866:

Severn Trent Services

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

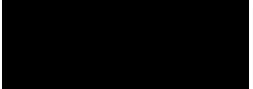

This sample has been analysed for SVOC Waters method GEO40, Pesticides method GEO47, Sodium Total as Na, Cyanide, total as CN, TOC (Filtered) outside recommended stability times. It is therefore possible that the results provided may be compromised. Sulphate analysed by ion chromatography due to interference 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
The sample for Bromide was received in a container inappropriate for this parameter. 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.

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: 09 November 2011
	Title: Chemistry Operations Manager	

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649867**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 3 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 11:15**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.103	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.030	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.029	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	817	mg/l	Y Cov	WAS055
Sulphide as S	0.400	mg/l	Y Cov	WAS033

Analyst Comments for 12649867:

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: **09 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/812688/2011**

Issue **2**

Laboratory Number: **12649868**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 12:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	7.11	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.154	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	Y Cov	WAS049
Calcium , Total as Ca	169	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0384	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.004	mg/l	Y Cov	WAS049
Iron , Total as Fe	13.4	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	1.57	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	11.3	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.009	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.795	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.073	mg/l	Y Cov	WAS049
Potassium , Total as K	420	mg/l	Y Cov	WAS049
Sodium , Total as Na	783	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.109	mg/l	Y Cov	WAS049
pH	7.7	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	8740	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	3540	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	632	mg/l	Y Cov	WAS055
Chloride as Cl	1140	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	3.44	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	16.2	mg/l	Y Cov	CON27
Suspended Solids	84.0	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	95	mg/l	Y Cov	WAS001
COD (1 hr settled)	988	mg/l	Y Cov	WAS040
TOC (Filtered)	253	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/812688/2011**

Issue **2**

Laboratory Number: **12649868**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 12:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.060	mg/l	Y Cov	WAS033
Fluoride as F	0.8	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
Aldrin	<40	ng/l	Y Cov	GEO47
alpha-Endosulphan	<40	ng/l	Y Cov	GEO47
alpha-HCH	<30	ng/l	Y Cov	GEO47
beta-Endosulphan	<40	ng/l	Y Cov	GEO47
beta-HCH	<30	ng/l	Y Cov	GEO47
alpha-Chlordane	<20	ng/l	Y Cov	GEO47
Dichlobenil	40	ng/l	Y Cov	GEO47
Dieldrin	<40	ng/l	Y Cov	GEO47
Endrin	<40	ng/l	N Cov	GEO47
gamma-HCH	<30	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<20	ng/l	Y Cov	GEO47
Hexachlorobenzene	<20	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<70	ng/l	Y Cov	GEO47
Isodrin	<40	ng/l	Y Cov	GEO47
o,p - DDE	<20	ng/l	Y Cov	GEO47
p,p - DDE	<20	ng/l	Y Cov	GEO47
o,p - TDE	<20	ng/l	Y Cov	GEO47
p,p - TDE	<20	ng/l	Y Cov	GEO47
o,p - DDT	<20	ng/l	Y Cov	GEO47
p,p - DDT	<20	ng/l	Y Cov	GEO47
Tecnazene	<100	ng/l	Y Cov	GEO47
gamma-Chlordane	<40	ng/l	Y Cov	GEO47
Triallate	<100	ng/l	Y Cov	GEO47
Trifluralin	<300	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.040	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.020	ug/l	Y Cov	GEO47
Carbophenothion	<0.030	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/812688/2011**

Issue **2**

Laboratory Number: **12649868**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 12:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.020	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.020	ug/l	Y Cov	GEO47
Diazinon	<0.030	ug/l	Y Cov	GEO47
Dichlorvos	Analyst Comment	ug/l	Y Cov	GEO47
Dimethoate	<0.200	ug/l	Y Cov	GEO47
Fenitrothion	<0.020	ug/l	Y Cov	GEO47
Fenthion	<0.020	ug/l	Y Cov	GEO47
Malathion	<0.040	ug/l	Y Cov	GEO47
Mevinphos	<0.200	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.030	ug/l	Y Cov	GEO47
Parathion-methyl	<0.030	ug/l	Y Cov	GEO47
Phorate	<0.040	ug/l	Y Cov	GEO47
Phosalone	<0.040	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.050	ug/l	Y Cov	GEO47
Propetamphos	<0.030	ug/l	Y Cov	GEO47
Triazophos	<0.020	ug/l	Y Cov	GEO47
Atrazine	<0.200	ug/l	Y Cov	GEO47
Prometryne	<0.200	ug/l	Y Cov	GEO47
Propazine	<0.200	ug/l	Y Cov	GEO47
Simazine	<0.200	ug/l	Y Cov	GEO47
Terbutryn	<0.200	ug/l	Y Cov	GEO47
Trietazine	<0.100	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	<10.0	ug/l	Y Cov	GEO32
Chloromethane	<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/812688/2011**

Issue **2**

Laboratory Number: **12649868**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 12:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<10.0	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	17.5	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/812688/2011**

Issue **2**

Laboratory Number: **12649868**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 12:00**

Sample Received: **12 October 2011**

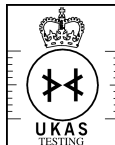
Analysis Complete: **09 November 2011**

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	<20.0	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	100.6	%Recovery	N Cov	GEO32
Toluene-d8	100.2	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	98.7	%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/812688/2011**

Issue **2**

Laboratory Number: **12649868**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 12:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	52.6	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/812688/2011**

Issue **2**

Laboratory Number: **12649868**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 12:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<50.0	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	91.3	%Recovery	N Cov	GEO40
Phenol-d6	95.7	%Recovery	N Cov	GEO40
Nitrobenzene-d5	105.1	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	102.2	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	107.4	%Recovery	N Cov	GEO40
Terphenyl-d14	102.2	%Recovery	N Cov	GEO40
Selenium, Total as Se	<0.0016	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0080	mg/l	Y Cov	WAS051
Methane, Dissolved	9.8	mg/l	N Cov	62

Analyst Comments for 12649868:

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 SVOC Waters method GEO40, Pesticides method GEO47, 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

The sample for Bromide was received in a container inappropriate for this parameter. It is therefore possible that the results provided may be compromised.

VOC reporting limits raised due to nature of sample matrix. Raised reporting limits for SVOC's due to sample matrix.


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: **09 November 2011**

Title: **Chemistry Operations Manager**

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649869**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 12:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.067	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.014	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.022	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	645	mg/l	Y Cov	WAS055
Sulphide as S	0.040	mg/l	Y Cov	WAS033

Analyst Comments for 12649869:

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: **09 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/812688/2011**

Issue **2**

Laboratory Number: **12649870**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	7.61	mg/l	Y Cov	CON27
Aluminium, Total as Al	1.61	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	Y Cov	WAS049
Calcium , Total as Ca	196	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0161	mg/l	Y Cov	WAS049
Copper, Total as Cu	<0.003	mg/l	Y Cov	WAS049
Iron , Total as Fe	22.5	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	2.90	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	11.1	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	0.8	mg/l	N Cov	CALC
Lead , Total as Pb	0.023	mg/l	Y Cov	WAS049
Manganese , Total as Mn	1.24	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.097	mg/l	Y Cov	WAS049
Potassium , Total as K	241	mg/l	Y Cov	WAS049
Sodium , Total as Na	592	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.091	mg/l	Y Cov	WAS049
pH	7.5	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	5770	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	2410	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	306	mg/l	Y Cov	WAS055
Chloride as Cl	732	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	0.45	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	6.14	mg/l	Y Cov	CON27
Suspended Solids	196	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	40	mg/l	Y Cov	WAS001
COD (1 hr settled)	650	mg/l	Y Cov	WAS040
TOC (Filtered)	133	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/812688/2011**

Issue **2**

Laboratory Number: **12649870**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.030	mg/l	Y Cov	WAS033
Fluoride as F	0.8	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	12	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/812688/2011**

Issue **2**

Laboratory Number: **12649870**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<10.0	ug/l	Y Cov	GEO32
Chloromethane	<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



Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649870**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<10.0	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	10.5	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/812688/2011**

Issue **2**

Laboratory Number: **12649870**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<20.0	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	100.8	%Recovery	N Cov	GEO32
Toluene-d8	100.3	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	96.9	%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/812688/2011**

Issue **2**

Laboratory Number: **12649870**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 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/812688/2011**

Issue **2**

Laboratory Number: **12649870**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<50.0	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	92.3	%Recovery	N Cov	GEO40
Phenol-d6	86.5	%Recovery	N Cov	GEO40
Nitrobenzene-d5	101.0	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	98.6	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	105.8	%Recovery	N Cov	GEO40
Terphenyl-d14	96.5	%Recovery	N Cov	GEO40
Selenium, Total as Se	<0.0016	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0157	mg/l	Y Cov	WAS051
Methane, Dissolved	9.5	mg/l	N Cov	62

Analyst Comments for 12649870:

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 SVOC Waters method GEO40, Pesticides method GEO47, Aluminium, Total as Al, Copper, Total as Cu, Sodium Total as Na, 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.
The sample for Bromide was received in a container inappropriate for this parameter. It is therefore possible that the results provided may be compromised.
VOC reporting limits raised due to nature of sample matrix. Raised reporting limits for SVOC's due to sample matrix.

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: 09 November 2011
	Title: Chemistry Operations Manager	

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649871**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 3 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.082	mg/l	Y Cov	WAS049
Copper, Total as Cu	<0.003	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.010	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	300	mg/l	Y Cov	WAS055
Sulphide as S	0.030	mg/l	Y Cov	WAS033

Analyst Comments for 12649871:

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: **09 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/812688/2011**

Issue **2**

Laboratory Number: **12649872**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 18**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:45**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	306	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.594	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0065	mg/l	Y Cov	WAS049
Calcium , Total as Ca	2350	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0614	mg/l	Y Cov	WAS049
Copper, Total as Cu	<0.001	mg/l	Y Cov	WAS049
Iron , Total as Fe	1020	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	1040	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	1250	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	306	mg/l	N Cov	CALC
Lead , Total as Pb	0.076	mg/l	Y Cov	WAS049
Manganese , Total as Mn	52.6	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.134	mg/l	Y Cov	WAS049
Potassium , Total as K	885	mg/l	Y Cov	WAS049
Sodium , Total as Na	1260	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.278	mg/l	Y Cov	WAS049
pH	6.2	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	19700	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	10200	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	1110	mg/l	Y Cov	WAS055
Chloride as Cl	1970	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	215	mg/l	Y Cov	WAS036
Suspended Solids	940	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	27600	mg/l	Y Cov	WAS001
COD (1 hr settled)	44500	mg/l	Y Cov	WAS040
TOC (Filtered)	Analyst Comment	mg/l	Y Cov	WAS005
Cyanide, Total as CN	13	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/812688/2011**

Issue **2**

Laboratory Number: **12649872**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 18**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:45**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	Analyst Comment	mg/l	Y Cov	WAS033
Fluoride as F	<0.2	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<100	ng/l	Y Cov	GEO47
Aldrin	<40	ng/l	Y Cov	GEO47
alpha-Endosulphan	<40	ng/l	Y Cov	GEO47
alpha-HCH	<30	ng/l	Y Cov	GEO47
beta-Endosulphan	<40	ng/l	Y Cov	GEO47
beta-HCH	<30	ng/l	Y Cov	GEO47
alpha-Chlordane	<20	ng/l	Y Cov	GEO47
Dichlobenil	<20	ng/l	Y Cov	GEO47
Dieldrin	<40	ng/l	Y Cov	GEO47
Endrin	<40	ng/l	N Cov	GEO47
gamma-HCH	<30	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<20	ng/l	Y Cov	GEO47
Hexachlorobenzene	<20	ng/l	Y Cov	GEO47
Hexachlorobutadiene	<70	ng/l	Y Cov	GEO47
Isodrin	<40	ng/l	Y Cov	GEO47
o,p - DDE	<20	ng/l	Y Cov	GEO47
p,p - DDE	<20	ng/l	Y Cov	GEO47
o,p - TDE	<20	ng/l	Y Cov	GEO47
p,p - TDE	<20	ng/l	Y Cov	GEO47
o,p - DDT	<20	ng/l	Y Cov	GEO47
p,p - DDT	<20	ng/l	Y Cov	GEO47
Tecnazene	<100	ng/l	Y Cov	GEO47
gamma-Chlordane	<40	ng/l	Y Cov	GEO47
Triallate	<100	ng/l	Y Cov	GEO47
Trifluralin	<300	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.040	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.020	ug/l	Y Cov	GEO47
Carbophenothion	<0.030	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/812688/2011**

Issue **2**

Laboratory Number: **12649872**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 18**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:45**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Chlorfenvinphos	<0.020	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.020	ug/l	Y Cov	GEO47
Diazinon	<0.030	ug/l	Y Cov	GEO47
Dichlorvos	<0.020	ug/l	Y Cov	GEO47
Dimethoate	7.91	ug/l	Y Cov	GEO47
Fenitrothion	<0.020	ug/l	Y Cov	GEO47
Fenthion	<0.020	ug/l	Y Cov	GEO47
Malathion	<0.040	ug/l	Y Cov	GEO47
Mevinphos	<0.200	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.030	ug/l	Y Cov	GEO47
Parathion-methyl	<0.030	ug/l	Y Cov	GEO47
Phorate	<0.040	ug/l	Y Cov	GEO47
Phosalone	<0.040	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.050	ug/l	Y Cov	GEO47
Propetamphos	<0.030	ug/l	Y Cov	GEO47
Triazophos	<0.020	ug/l	Y Cov	GEO47
Atrazine	<0.200	ug/l	Y Cov	GEO47
Prometryne	<0.200	ug/l	Y Cov	GEO47
Propazine	<0.200	ug/l	Y Cov	GEO47
Simazine	<0.200	ug/l	Y Cov	GEO47
Terbutryn	<0.200	ug/l	Y Cov	GEO47
Trietazine	<0.100	ug/l	Y Cov	GEO47
Acetic acid	10900	mg/l	Y Cov	CON17
Iso-butyric acid	1320	mg/l	Y Cov	CON17
Iso-valeric acid	896	mg/l	Y Cov	CON17
N-butyric acid	4710	mg/l	Y Cov	CON17
N-valeric acid	1810	mg/l	Y Cov	CON17
Propionic acid	7100	mg/l	Y Cov	CON17
Volatile acids, Total	26700	mg/l	Y Cov	CON17
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	<20.0	ug/l	Y Cov	GEO32
Chloromethane	<20.0	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/812688/2011**

Issue **2**

Laboratory Number: **12649872**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 18**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:45**

Sample Received: **12 October 2011**

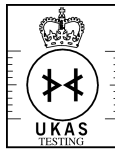
Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<20.0	ug/l	Y Cov	GEO32
Bromomethane	<20.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<20.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<20.0	ug/l	Y Cov	GEO32
Dichloromethane	<20.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<20.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<20.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<20.0	ug/l	Y Cov	GEO32
Chloroform	<20.0	ug/l	Y Cov	GEO32
Bromochloromethane	<20.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<20.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<20.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<20.0	ug/l	Y Cov	GEO32
Benzene	<20.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<20.0	ug/l	Y Cov	GEO32
Trichloroethene	<20.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<20.0	ug/l	Y Cov	GEO32
Dibromomethane	<20.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<20.0	ug/l	Y Cov	GEO32
Toluene	89.2	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<20.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<20.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<20.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<10.0	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<20.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<20.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<20.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<20.0	ug/l	Y Cov	GEO32
Chlorobenzene	<20.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<20.0	ug/l	Y Cov	GEO32
Ethyl Benzene	31.2	ug/l	Y Cov	GEO32
m&p-Xylene	52.5	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/812688/2011**

Issue **2**

Laboratory Number: **12649872**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 18**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:45**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	<20.0	ug/l	Y Cov	GEO32
Styrene	<20.0	ug/l	Y Cov	GEO32
Bromoform	<20.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<20.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<20.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<20.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<20.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<20.0	ug/l	Y Cov	GEO32
Bromobenzene	<20.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<20.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<20.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<20.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<20.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	<20.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<20.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<20.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<20.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<20.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<20.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<20.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<40.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<20.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<20.0	ug/l	Y Cov	GEO32
Naphthalene	<20.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<20.0	ug/l	Y Cov	GEO32
MTBE	<20.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	99.4	%Recovery	N Cov	GEO32
Toluene-d8	104.4	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	99.6	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	1040	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/812688/2011**

Issue **2**

Laboratory Number: **12649872**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 18**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:45**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<50	ug/l	Y Cov	GEO40
3&4-Methylphenol	24900	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	215	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/812688/2011**

Issue **2**

Laboratory Number: **12649872**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 18**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:45**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<50.0	ug/l	Y Cov	GEO40
Phenanthrene	<10.0	ug/l	Y Cov	GEO40
Anthracene	<10.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	10.7	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	96.5	%Recovery	N Cov	GEO40
Phenol-d6	50.6	%Recovery	N Cov	GEO40
Nitrobenzene-d5	117.6	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	106.2	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	115.9	%Recovery	N Cov	GEO40
Terphenyl-d14	90.8	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.0038	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0233	mg/l	Y Cov	WAS051
Methane, Dissolved	6.4	mg/l	N Cov	62

Analyst Comments for 12649872:

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 SVOC Waters method GEO40, Pesticides method GEO47, Aluminium, Total as Al, Copper, Total as Cu, Sodium Total as Na 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 ferrous-ferric ratio between sampling and analysis. Raised reporting limits for 2-methylphenol due to interferences. Raised reporting limits for SVOC's due to sample matrix.

Unable to analyse for TOC (filtered), due to oily nature of sample.



Integrity breach between Fe (Total and Filtered), results within 10%.

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: 09 November 2011
	Title: Chemistry Operations Manager	

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649873**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 18 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 13:45**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.552	mg/l	Y Cov	WAS049
Copper, Total as Cu	<0.003	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.146	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	1070	mg/l	Y Cov	WAS055
Sulphide as S	Analyst Comment	mg/l	Y Cov	WAS033

Analyst Comments for 12649873:

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
{/*}No result for sulphides due to colourmetric interference.{/*}

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: **09 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/812688/2011**

Issue **2**

Laboratory Number: **12649874**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 13**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 14:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	3.61	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.067	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	Y Cov	WAS049
Calcium , Total as Ca	213	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0086	mg/l	Y Cov	WAS049
Copper, Total as Cu	<0.003	mg/l	Y Cov	WAS049
Iron , Total as Fe	21.0	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	2.29	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	19.9	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	1.4	mg/l	N Cov	CALC
Lead , Total as Pb	<0.005	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.687	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.089	mg/l	Y Cov	WAS049
Potassium , Total as K	349	mg/l	Y Cov	WAS049
Sodium , Total as Na	697	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.157	mg/l	Y Cov	WAS049
pH	7.5	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	7530	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	3040	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	450	mg/l	Y Cov	WAS055
Chloride as Cl	908	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	146	mg/l	Y Cov	WAS036
Suspended Solids	152	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	76	mg/l	Y Cov	WAS001
COD (1 hr settled)	660	mg/l	Y Cov	WAS040
TOC (Filtered)	36.0	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/812688/2011**

Issue **2**

Laboratory Number: **12649874**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 13**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 14:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.400	mg/l	Y Cov	WAS033
Fluoride as F	0.3	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	70	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/812688/2011**

Issue **2**

Laboratory Number: **12649874**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 13**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 14:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<0.004	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	41.6	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	13.4	mg/l	Y Cov	CON17
Volatile acids, Total	55.0	mg/l	Y Cov	CON17
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	<10.0	ug/l	Y Cov	GEO32
Chloromethane	<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



Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649874**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 13**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 14:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<10.0	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



Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649874**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 13**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 14:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<20.0	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	102.4	%Recovery	N Cov	GEO32
Toluene-d8	101.0	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	98.1	%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/812688/2011**

Issue **2**

Laboratory Number: **12649874**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 13**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 14:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 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/812688/2011**

Issue **2**

Laboratory Number: **12649874**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 13**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 14:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<50.0	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	92.9	%Recovery	N Cov	GEO40
Phenol-d6	86.2	%Recovery	N Cov	GEO40
Nitrobenzene-d5	100.2	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	97.7	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	103.9	%Recovery	N Cov	GEO40
Terphenyl-d14	94.9	%Recovery	N Cov	GEO40
Selenium, Total as Se	<0.0016	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0116	mg/l	Y Cov	WAS051
Methane, Dissolved	6.0	mg/l	N Cov	62

Analyst Comments for 12649874:

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 SVOC Waters method GEO40, Pesticides method GEO47, 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. The sample for Bromide was received in a container inappropriate for this parameter. 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.

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: 09 November 2011
	Title: Chemistry Operations Manager	

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649875**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 13 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 14:30**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.034	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.009	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.023	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	455	mg/l	Y Cov	WAS055
Sulphide as S	0.450	mg/l	Y Cov	WAS033

Analyst Comments for 12649875:

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: **09 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/812688/2011**

Issue **2**

Laboratory Number: **12649876**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 15:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	9.57	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.234	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	Y Cov	WAS049
Calcium , Total as Ca	129	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0747	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.003	mg/l	Y Cov	WAS049
Iron , Total as Fe	11.4	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	7.52	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	9.9	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	<0.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.010	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.295	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	728	mg/l	Y Cov	WAS049
Sodium , Total as Na	1100	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.064	mg/l	Y Cov	WAS049
pH	7.7	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	11900	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	4980	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	886	mg/l	Y Cov	WAS055
Chloride as Cl	1640	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	6.11	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	4.51	mg/l	Y Cov	CON27
Suspended Solids	82.0	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	342	mg/l	Y Cov	WAS001
COD (1 hr settled)	1630	mg/l	Y Cov	WAS040
TOC (Filtered)	363	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/812688/2011**

Issue **2**

Laboratory Number: **12649876**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 15:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	<0.029	mg/l	Y Cov	WAS033
Fluoride as F	0.6	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	44	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	50	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	245	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/812688/2011**

Issue **2**

Laboratory Number: **12649876**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 15:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<0.008	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	17.6	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	<10.0	ug/l	Y Cov	GEO32
Chloromethane	<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/812688/2011**

Issue **2**

Laboratory Number: **12649876**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 15:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<10.0	ug/l	Y Cov	GEO32
Toluene	12.1	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	14.7	ug/l	Y Cov	GEO32
m&p-Xylene	40.5	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/812688/2011**

Issue **2**

Laboratory Number: **12649876**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 15:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	12.8	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	17.1	ug/l	Y Cov	GEO32
sec-Butylbenzene	<10.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	24.7	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	<20.0	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	16.1	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	100.5	%Recovery	N Cov	GEO32
Toluene-d8	100.2	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	99.6	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	42.2	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

SEVERN
TRENT
SERVICES

Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649876**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 15:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	11.6	ug/l	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	94.0	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	43.7	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	24.1	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<4.0	ug/l	Y Cov	GEO40
Naphthalene	21.2	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	<5.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<4.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	18.4	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	6.2	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/812688/2011**

Issue **2**

Laboratory Number: **12649876**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 15:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 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	<20.0	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	86.6	%Recovery	N Cov	GEO40
Phenol-d6	98.9	%Recovery	N Cov	GEO40
Nitrobenzene-d5	103.7	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	102.1	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	99.6	%Recovery	N Cov	GEO40
Terphenyl-d14	99.5	%Recovery	N Cov	GEO40
Selenium, Total as Se	<0.0016	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0133	mg/l	Y Cov	WAS051
Methane, Dissolved	5.7	mg/l	N Cov	62

Analyst Comments for 12649876:

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 SVOC Waters method GEO40, Pesticides method GEO47, 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.

The sample for Bromide was received in a container inappropriate for this parameter. It is therefore possible that the results provided may be compromised. Raised reporting limits for SVOC's due to sample Reporting limits raised for GCMSMS Pesticide results due to nature of sample Result for Dimethoate is given as an indication only due to surrogate failure. VOC reporting limits raised due to nature of sample

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: **09 November 2011**

Title: **Chemistry Operations Manager**

Certificate of Analysis



1314
1229
0897
4409



Report Number: **COV/812688/2011**

Issue **2**

Laboratory Number: **12649877**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GEW 5 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **12 October 2011 15:00**

Sample Received: **12 October 2011**

Analysis Complete: **09 November 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.099	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.022	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.053	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	894	mg/l	Y Cov	WAS055
Sulphide as S	<0.029	mg/l	Y Cov	WAS033

Analyst Comments for 12649877:

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: **09 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