

**Analytical Services**  
Torrington Avenue,  
Coventry, CV4 9GU

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

[www.stsanalytical.com](http://www.stsanalytical.com)

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

02 September 2011

**Test Report: COV/796724/2011**

Dear ██████████

Analysis of your sample(s) submitted on 03 August 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: Inorganics Operations Manager



No. 1314  
No. 4398



Certificate No. GB97/10269  
Environmental Management Systems



Certificate No. FS 67435

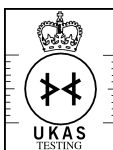


Certificate No. OHS 542058



MCERTS  
THE ENVIRONMENT AGENCY'S  
NATIONAL CERTIFICATION SCHEME

# Report Summary



1314  
1229  
0897  
4409



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

Date of Issue: **02 September 2011**

Report Number: **COV/796724/2011**

Issue **1**

**Job Description:** Stoneyhill Landfill Monitoring

**Job Location:** Stoneyhill Landfill Monitoring

Number of Samples  
included in this report **10**

Job Received: **03 August 2011**

Number of Test Results  
included in this report **1130**

Analysis Commenced: **03 August 2011**

Signed:

[Redacted Signature]

Name:

[Redacted Name]

Date: **02 September 2011**

Title: **Inorganics 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/796724/2011**

Issue **1**

Laboratory Number: **12526258**

Sample **1** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 10:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	12.1	mg/l	Y Cov	CON27
Aluminium, Total as Al	3.41	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0022	mg/l	Y Cov	WAS049
Calcium , Total as Ca	129	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0739	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.062	mg/l	Y Cov	WAS049
Iron , Total as Fe	41.1	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	10	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	Analyst Comment	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	Analyst Comment	mg/l	N Cov	CALC
Lead , Total as Pb	0.097	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.588	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.137	mg/l	Y Cov	WAS049
Potassium , Total as K	503	mg/l	Y Cov	WAS049
Sodium , Total as Na	1070	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.464	mg/l	Y Cov	WAS049
pH	8.2	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	11600	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	4400	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	910	mg/l	Y Cov	WAS055
Chloride as Cl	2040	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	3.96	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	22.7	mg/l	Y Cov	CON27
Suspended Solids	6840	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	169	mg/l	Y Cov	WAS001
COD (1 hr settled)	1660	mg/l	Y Cov	WAS040
TOC (Filtered)	317	mg/l	Y Cov	WAS005
Cyanide, Total as CN	16	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/796724/2011**

Issue **1**

Laboratory Number: **12526258**

Sample **1** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 10:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	1.70	mg/l	Y Cov	WAS033
Fluoride as F	0.9	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<40	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	42	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	106	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/796724/2011**

Issue **1**

Laboratory Number: **12526258**

Sample **1** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 10:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 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	<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	<4.0	ug/l	Y Cov	GEO32
Chloromethane	<4.0	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/796724/2011**

Issue **1**

Laboratory Number: **12526258**

Sample **1** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 10:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<4.0	ug/l	Y Cov	GEO32
Bromomethane	<4.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
Dichloromethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<4.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Chloroform	<4.0	ug/l	Y Cov	GEO32
Bromochloromethane	<4.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<4.0	ug/l	Y Cov	GEO32
Benzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Trichloroethene	<4.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<4.0	ug/l	Y Cov	GEO32
Dibromomethane	<4.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
Toluene	<4.0	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<4.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<4.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<2.0	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<4.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<4.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<4.0	ug/l	Y Cov	GEO32
Chlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<4.0	ug/l	Y Cov	GEO32
Ethyl Benzene	6.6	ug/l	Y Cov	GEO32
m&p-Xylene	14.2	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/796724/2011**

Issue **1**

Laboratory Number: **12526258**

Sample **1** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 10:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	5.5	ug/l	Y Cov	GEO32
Styrene	<4.0	ug/l	Y Cov	GEO32
Bromoform	<4.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<4.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<4.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<4.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<4.0	ug/l	Y Cov	GEO32
Bromobenzene	<4.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<4.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<4.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<4.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	<4.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<4.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<8.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<4.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<4.0	ug/l	Y Cov	GEO32
Naphthalene	<4.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<4.0	ug/l	Y Cov	GEO32
MTBE	<4.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	99.0	%Recovery	N Cov	GEO32
Toluene-d8	98.4	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	92.8	%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/796724/2011**

Issue **1**

Laboratory Number: **12526258**

Sample **1** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 10:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 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	27.9	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	13.9	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	<50.0	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/796724/2011**

Issue **1**

Laboratory Number: **12526258**

Sample **1** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 10:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 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	71.2	%Recovery	N Cov	GEO40
Phenol-d6	71.2	%Recovery	N Cov	GEO40
Nitrobenzene-d5	80.6	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	79.2	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	90.1	%Recovery	N Cov	GEO40
Terphenyl-d14	85.6	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.042	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0525	mg/l	Y Cov	WAS051
Methane, Dissolved	0.76	mg/l	N Cov	62

Analyst Comments for 12526258:

## Severn Trent Services



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

Reporting limits raised for GCMSMS Pesticide results due to nature of sample matrix.  
Sulphate analysed by ion chromatography due to interference with turbidimetric determination  
Unable to analyse for ferrous-ferric, due to interference with turbidimetric determination.  
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: <b>02 September 2011</b>
		Title: <b>Inorganics Operations Manager</b>	

# Certificate of Analysis



1314  
1229  
0897  
4409



Report Number: **COV/796724/2011**

Issue **1**

Laboratory Number: **12526259**

Sample **2** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 11:00**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	<5.00	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.686	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0008	mg/l	Y Cov	WAS049
Calcium , Total as Ca	255	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0174	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.025	mg/l	Y Cov	WAS049
Iron , Total as Fe	30.3	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	10	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	13.1	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	13.3	mg/l	N Cov	CALC
Lead , Total as Pb	0.025	mg/l	Y Cov	WAS049
Manganese , Total as Mn	1.25	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.044	mg/l	Y Cov	WAS049
Potassium , Total as K	256	mg/l	Y Cov	WAS049
Sodium , Total as Na	347	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.304	mg/l	Y Cov	WAS049
pH	7.6	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	5920	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	2750	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	399	mg/l	Y Cov	WAS055
Chloride as Cl	614	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	0.25	mg/l	Y Cov	WAS036
Sulphate as SO4	47.3	mg/l	Y Cov	WAS036
Suspended Solids	308	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	25	mg/l	Y Cov	WAS001
COD (1 hr settled)	488	mg/l	Y Cov	WAS040
TOC (Filtered)	108	mg/l	Y Cov	WAS005
Cyanide, Total as CN	15	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/796724/2011**

Issue **1**

Laboratory Number: **12526259**

Sample **2** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 11:00**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.07	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	25	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/796724/2011**

Issue **1**

Laboratory Number: **12526259**

Sample **2** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 11:00**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 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	Analyst Comment	ug/l	Y Cov	GEO47
Fenitrothion	<0.004	ug/l	Y Cov	GEO47
Fenthion	<0.004	ug/l	Y Cov	GEO47
Malathion	<0.008	ug/l	Y Cov	GEO47
Mevinphos	<0.040	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.006	ug/l	Y Cov	GEO47
Parathion-methyl	<0.006	ug/l	Y Cov	GEO47
Phorate	<0.008	ug/l	Y Cov	GEO47
Phosalone	<0.008	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.010	ug/l	Y Cov	GEO47
Propetamphos	<0.006	ug/l	Y Cov	GEO47
Triazophos	<0.004	ug/l	Y Cov	GEO47
Atrazine	<0.040	ug/l	Y Cov	GEO47
Prometryne	<0.040	ug/l	Y Cov	GEO47
Propazine	<0.040	ug/l	Y Cov	GEO47
Simazine	<0.040	ug/l	Y Cov	GEO47
Terbutryn	<0.040	ug/l	Y Cov	GEO47
Trietazine	<0.020	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	<4.0	ug/l	Y Cov	GEO32
Chloromethane	<4.0	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/796724/2011**

Issue **1**

Laboratory Number: **12526259**

Sample **2** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 11:00**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<4.0	ug/l	Y Cov	GEO32
Bromomethane	<4.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
Dichloromethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<4.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Chloroform	<4.0	ug/l	Y Cov	GEO32
Bromochloromethane	<4.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<4.0	ug/l	Y Cov	GEO32
Benzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Trichloroethene	<4.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<4.0	ug/l	Y Cov	GEO32
Dibromomethane	<4.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
Toluene	<4.0	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<4.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<4.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<2.0	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<4.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<4.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<4.0	ug/l	Y Cov	GEO32
Chlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<4.0	ug/l	Y Cov	GEO32
Ethyl Benzene	<4.0	ug/l	Y Cov	GEO32
m&p-Xylene	<4.0	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/796724/2011**

Issue **1**

Laboratory Number: **12526259**

Sample **2** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 11:00**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	<4.0	ug/l	Y Cov	GEO32
Styrene	<4.0	ug/l	Y Cov	GEO32
Bromoform	<4.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<4.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<4.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<4.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<4.0	ug/l	Y Cov	GEO32
Bromobenzene	<4.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<4.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<4.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<4.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	<4.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<4.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<8.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<4.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<4.0	ug/l	Y Cov	GEO32
Naphthalene	<4.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<4.0	ug/l	Y Cov	GEO32
MTBE	<4.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	99.3	%Recovery	N Cov	GEO32
Toluene-d8	99.8	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	92.3	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<4.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	Y Cov	GEO40

## Severn Trent Services

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

# Certificate of Analysis



1314  
1229  
0897  
4409



Report Number: **COV/796724/2011**

Issue **1**

Laboratory Number: **12526259**

Sample **2** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 11:00**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

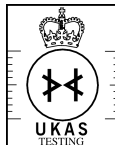
Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<4.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	<4.0	ug/l	N Cov	GEO40
Dibenzofuran	<4.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene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

## Severn Trent Services

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



# Certificate of Analysis



1314  
1229  
0897  
4409

SEVERN  
TRENT  
SERVICES

Report Number: **COV/796724/2011**

Issue **1**

Laboratory Number: **12526259**

Sample **2** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 11:00**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 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	73.9	%Recovery	N Cov	GEO40
Phenol-d6	70.4	%Recovery	N Cov	GEO40
Nitrobenzene-d5	85.2	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	81.5	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	100.5	%Recovery	N Cov	GEO40
Terphenyl-d14	85.7	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.011	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0080	mg/l	Y Cov	WAS051
Methane, Dissolved	4.9	mg/l	N Cov	62

Analyst Comments for 12526259:

## Severn Trent Services

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

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

Result for Dimethoate is unavailable due to AQC breach.

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: **02 September 2011**

Title:

**Inorganics Operations Manager**

# Certificate of Analysis



1314  
1229  
0897  
4409



Report Number: **COV/796724/2011**

Issue **1**

Laboratory Number: **12526260**

Sample **3** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 12:15**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	<5.00	mg/l	Y Cov	CON27
Aluminium, Total as Al	1.17	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0010	mg/l	Y Cov	WAS049
Calcium , Total as Ca	167	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.1090	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.035	mg/l	Y Cov	WAS049
Iron , Total as Fe	21.9	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	6.02	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	9.9	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	11.3	mg/l	N Cov	CALC
Lead , Total as Pb	0.061	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.840	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.048	mg/l	Y Cov	WAS049
Potassium , Total as K	308	mg/l	Y Cov	WAS049
Sodium , Total as Na	530	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.225	mg/l	Y Cov	WAS049
pH	7.7	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	6970	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	3100	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	459	mg/l	Y Cov	WAS055
Chloride as Cl	795	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.	7.46	mg/l	Y Cov	CON27
Suspended Solids	268	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	36	mg/l	Y Cov	WAS001
COD (1 hr settled)	773	mg/l	Y Cov	WAS040
TOC (Filtered)	171	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/796724/2011**

Issue **1**

Laboratory Number: **12526260**

Sample **3** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 12:15**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.06	mg/l	Y Cov	WAS033
Fluoride as F	0.5	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	65	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	15	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/796724/2011**

Issue **1**

Laboratory Number: **12526260**

Sample **3** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 12:15**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 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	0.008	ug/l	Y Cov	GEO47
Phorate	<0.008	ug/l	Y Cov	GEO47
Phosalone	<0.008	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.010	ug/l	Y Cov	GEO47
Propetamphos	<0.006	ug/l	Y Cov	GEO47
Triazophos	<0.004	ug/l	Y Cov	GEO47
Atrazine	<0.040	ug/l	Y Cov	GEO47
Prometryne	<0.040	ug/l	Y Cov	GEO47
Propazine	<0.040	ug/l	Y Cov	GEO47
Simazine	<0.040	ug/l	Y Cov	GEO47
Terbutryn	<0.040	ug/l	Y Cov	GEO47
Trietazine	<0.020	ug/l	Y Cov	GEO47
Acetic acid	<10.0	mg/l	Y Cov	CON17
Iso-butyric acid	<10.0	mg/l	Y Cov	CON17
Iso-valeric acid	<10.0	mg/l	Y Cov	CON17
N-butyric acid	<10.0	mg/l	Y Cov	CON17
N-valeric acid	<10.0	mg/l	Y Cov	CON17
Propionic acid	<10.0	mg/l	Y Cov	CON17
Volatile acids, Total	<20.0	mg/l	Y Cov	CON17
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	<4.0	ug/l	Y Cov	GEO32
Chloromethane	<4.0	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/796724/2011**

Issue **1**

Laboratory Number: **12526260**

Sample **3** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 12:15**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<4.0	ug/l	Y Cov	GEO32
Bromomethane	<4.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
Dichloromethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<4.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Chloroform	<4.0	ug/l	Y Cov	GEO32
Bromochloromethane	<4.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<4.0	ug/l	Y Cov	GEO32
Benzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Trichloroethene	<4.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<4.0	ug/l	Y Cov	GEO32
Dibromomethane	<4.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
Toluene	19.4	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<4.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<4.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<2.0	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<4.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<4.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<4.0	ug/l	Y Cov	GEO32
Chlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<4.0	ug/l	Y Cov	GEO32
Ethyl Benzene	16.8	ug/l	Y Cov	GEO32
m&p-Xylene	53.7	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/796724/2011**

Issue **1**

Laboratory Number: **12526260**

Sample **3** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 12:15**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	18.1	ug/l	Y Cov	GEO32
Styrene	<4.0	ug/l	Y Cov	GEO32
Bromoform	<4.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<4.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<4.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<4.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<4.0	ug/l	Y Cov	GEO32
Bromobenzene	<4.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<4.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<4.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<4.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	13.5	ug/l	Y Cov	GEO32
sec-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	8.7	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<8.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<4.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<4.0	ug/l	Y Cov	GEO32
Naphthalene	<4.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<4.0	ug/l	Y Cov	GEO32
MTBE	<4.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	99.9	%Recovery	N Cov	GEO32
Toluene-d8	98.6	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	92.8	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<4.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	Y Cov	GEO40

## Severn Trent Services

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

# Certificate of Analysis



1314  
1229  
0897  
4409

SEVERN  
TRENT  
SERVICES

Report Number: **COV/796724/2011**

Issue **1**

Laboratory Number: **12526260**

Sample **3** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 12:15**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

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

## Severn Trent Services

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



# Certificate of Analysis



1314  
1229  
0897  
4409



Report Number: **COV/796724/2011**

Issue **1**

Laboratory Number: **12526260**

Sample **3** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 12:15**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 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	78.9	%Recovery	N Cov	GEO40
Phenol-d6	77.9	%Recovery	N Cov	GEO40
Nitrobenzene-d5	85.3	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	80.4	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	101.5	%Recovery	N Cov	GEO40
Terphenyl-d14	91.0	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.019	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0994	mg/l	Y Cov	WAS051
Methane, Dissolved	4.3	mg/l	N Cov	62

Analyst Comments for 12526260:

## Severn Trent Services

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

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

Sulphate analysed by ion chromatography due to interference with turbidimetric determination



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: <b>02 September 2011</b>
	Title: <b>Inorganics Operations Manager</b>	

# Certificate of Analysis



1314  
1229  
0897  
4409



Report Number: **COV/796724/2011**

Issue **1**

Laboratory Number: **12526261**

Sample **4** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 13:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	8.84	mg/l	Y Cov	CON27
Aluminium, Total as Al	0.443	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0012	mg/l	Y Cov	WAS049
Calcium , Total as Ca	172	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0241	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.009	mg/l	Y Cov	WAS049
Iron , Total as Fe	30.4	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	20	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	22.9	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	5.8	mg/l	N Cov	CALC
Lead , Total as Pb	0.057	mg/l	Y Cov	WAS049
Manganese , Total as Mn	1.81	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.126	mg/l	Y Cov	WAS049
Potassium , Total as K	677	mg/l	Y Cov	WAS049
Sodium , Total as Na	935	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.161	mg/l	Y Cov	WAS049
pH	7.8	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	11500	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	5060	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	869	mg/l	Y Cov	WAS055
Chloride as Cl	1510	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	1.98	mg/l	Y Cov	WAS036
Sulphate, total as SO4 by I.C.	<5.00	mg/l	Y Cov	CON27
Suspended Solids	164	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	304	mg/l	Y Cov	WAS001
COD (1 hr settled)	1430	mg/l	Y Cov	WAS040
TOC (Filtered)	308	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/796724/2011**

Issue **1**

Laboratory Number: **12526261**

Sample **4** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 13:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	0.07	mg/l	Y Cov	WAS033
Fluoride as F	1.0	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	44	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	<55	ng/l	Y Cov	GEO47
alpha-Chlordane	<4	ng/l	Y Cov	GEO47
Dichlobenil	170	ng/l	Y Cov	GEO47
Dieldrin	<8	ng/l	Y Cov	GEO47
Endrin	<8	ng/l	N Cov	GEO47
gamma-HCH	<135	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



Report Number: **COV/796724/2011**

Issue **1**

Laboratory Number: **12526261**

Sample **4** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 13:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 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	Analyst Comment	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	0.027	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	118	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	52.2	mg/l	Y Cov	CON17
Volatile acids, Total	170	mg/l	Y Cov	CON17
VOC	Y	ug/l	Y Cov	GEO32
Dichlorodifluoromethane	<4.0	ug/l	Y Cov	GEO32
Chloromethane	<4.0	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/796724/2011**

Issue **1**

Laboratory Number: **12526261**

Sample **4** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 13:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<4.0	ug/l	Y Cov	GEO32
Bromomethane	<4.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
Dichloromethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<4.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Chloroform	<4.0	ug/l	Y Cov	GEO32
Bromochloromethane	<4.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<4.0	ug/l	Y Cov	GEO32
Benzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Trichloroethene	<4.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<4.0	ug/l	Y Cov	GEO32
Dibromomethane	<4.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
Toluene	37.9	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<4.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<4.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<2.0	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<4.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<4.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<4.0	ug/l	Y Cov	GEO32
Chlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<4.0	ug/l	Y Cov	GEO32
Ethyl Benzene	57.8	ug/l	Y Cov	GEO32
m&p-Xylene	149	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/796724/2011**

Issue **1**

Laboratory Number: **12526261**

Sample **4** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 13:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	44.6	ug/l	Y Cov	GEO32
Styrene	<4.0	ug/l	Y Cov	GEO32
Bromoform	<4.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<4.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<4.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<4.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<4.0	ug/l	Y Cov	GEO32
Bromobenzene	<4.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<4.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	7.7	ug/l	Y Cov	GEO32
4-Chlorotoluene	<4.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	30.4	ug/l	Y Cov	GEO32
sec-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	19.6	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	7.6	ug/l	Y Cov	GEO32
n-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<8.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<4.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<4.0	ug/l	Y Cov	GEO32
Naphthalene	10.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<4.0	ug/l	Y Cov	GEO32
MTBE	<4.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	101.8	%Recovery	N Cov	GEO32
Toluene-d8	100.6	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	93.7	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	22.2	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/796724/2011**

Issue **1**

Laboratory Number: **12526261**

Sample **4** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 13:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 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	384	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	<50.0	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/796724/2011**

Issue **1**

Laboratory Number: **12526261**

Sample **4** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 13:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 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	80.4	%Recovery	N Cov	GEO40
Phenol-d6	80.9	%Recovery	N Cov	GEO40
Nitrobenzene-d5	89.0	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	83.4	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	102.0	%Recovery	N Cov	GEO40
Terphenyl-d14	91.2	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.030	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0201	mg/l	Y Cov	WAS051
Methane, Dissolved	3.4	mg/l	N Cov	62

Analyst Comments for 12526261:

## Severn Trent Services

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



The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.  
Sulphate analysed by ion chromatography due to interference with turbidimetric determination  
Result for Dimethoate is unavailable due to AQC breach. Reporting limits raised for b-HCH and g-HCH due to matrix interference. 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: <b>02 September 2011</b>
	Title: <b>Inorganics Operations Manager</b>	

# Certificate of Analysis



1314  
1229  
0897  
4409



Report Number: **COV/796724/2011**

Issue **1**

Laboratory Number: **12526262**

Sample **5** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GW3**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 15:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Bromide	6.61	mg/l	Y Cov	CON27
Aluminium, Total as Al	1.64	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0012	mg/l	Y Cov	WAS049
Calcium , Total as Ca	150	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.0147	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.051	mg/l	Y Cov	WAS049
Iron , Total as Fe	33.1	mg/l	Y Cov	WAS049
Iron, Filtered as Fe	6.63	mg/l	Y Cov	WAS049
Ferrous Iron fixed with HCL	7.4	mg/l	N Cov	WAS043
Ferric Iron Fixed with HCL	1.5	mg/l	N Cov	CALC
Lead , Total as Pb	0.032	mg/l	Y Cov	WAS049
Manganese , Total as Mn	0.929	mg/l	Y Cov	WAS049
Mercury, Total as Hg	<0.0001	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.085	mg/l	Y Cov	WAS049
Potassium , Total as K	185	mg/l	Y Cov	WAS049
Sodium , Total as Na	478	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.158	mg/l	Y Cov	WAS049
pH	7.8	pH units	Y Cov	WAS039
Conductivity- Electrical 20C	5010	uS/cm	Y Cov	WAS039
Alkalinity as CaCO3	2050	mg/l	Y Cov	WAS025
Ammoniacal Nitrogen as N	240	mg/l	Y Cov	WAS055
Chloride as Cl	661	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 as SO4	53.7	mg/l	Y Cov	WAS036
Suspended Solids	308	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	69	mg/l	Y Cov	WAS001
COD (1 hr settled)	593	mg/l	Y Cov	WAS040
TOC (Filtered)	80.6	mg/l	Y Cov	WAS005
Cyanide, Total as CN	<10	ug/l	Y Cov	WAS018

## Severn Trent Services

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

# Certificate of Analysis



1314  
1229  
0897  
4409



Report Number: **COV/796724/2011**

Issue **1**

Laboratory Number: **12526262**

Sample **5** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GW3**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 15:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Sulphide as S	1.28	mg/l	Y Cov	WAS033
Fluoride as F	0.9	mg/l	Y Cov	WAS029
1,2,3-Trichlorobenzene	<20	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	25	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	16	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/796724/2011**

Issue **1**

Laboratory Number: **12526262**

Sample **5** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GW3**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 15:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 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	<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	<4.0	ug/l	Y Cov	GEO32
Chloromethane	<4.0	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/796724/2011**

Issue **1**

Laboratory Number: **12526262**

Sample **5** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GW3**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 15:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Chloroethane	<4.0	ug/l	Y Cov	GEO32
Bromomethane	<4.0	ug/l	Y Cov	GEO32
Trichlorofluoromethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
Dichloromethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloroethane	<4.0	ug/l	Y Cov	GEO32
cis-1,2-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
2,2-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Chloroform	<4.0	ug/l	Y Cov	GEO32
Bromochloromethane	<4.0	ug/l	Y Cov	GEO32
1,1,1-Trichloroethane	<4.0	ug/l	Y Cov	GEO32
1,1-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichloroethane	<4.0	ug/l	Y Cov	GEO32
Benzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Trichloroethene	<4.0	ug/l	Y Cov	GEO32
Bromodichloromethane	<4.0	ug/l	Y Cov	GEO32
Dibromomethane	<4.0	ug/l	Y Cov	GEO32
cis-1,3-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
Toluene	<4.0	ug/l	Y Cov	GEO32
trans-1,3-Dichloropropene	<4.0	ug/l	Y Cov	GEO32
1,1,2-Trichloroethane	<4.0	ug/l	Y Cov	GEO32
Carbon Tetrachloride	<4.0	ug/l	Y Cov	GEO32
Vinyl Chloride	<2.0	ug/l	Y Cov	GEO32
1,3-Dichloropropane	<4.0	ug/l	Y Cov	GEO32
Tetrachloroethene	<4.0	ug/l	Y Cov	GEO32
Dibromochloromethane	<4.0	ug/l	Y Cov	GEO32
1,2-Dibromoethane	<4.0	ug/l	Y Cov	GEO32
Chlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<4.0	ug/l	Y Cov	GEO32
Ethyl Benzene	10.7	ug/l	Y Cov	GEO32
m&p-Xylene	23.6	ug/l	Y Cov	GEO32

## Severn Trent Services

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

# Certificate of Analysis



1314  
1229  
0897  
4409

**SEVERN**  
**TRENT**  
**SERVICES**

Report Number: **COV/796724/2011**

Issue **1**

Laboratory Number: **12526262**

Sample **5** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GW3**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 15:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
o-Xylene	<4.0	ug/l	Y Cov	GEO32
Styrene	<4.0	ug/l	Y Cov	GEO32
Bromoform	<4.0	ug/l	Y Cov	GEO32
trans-1,2-Dichloroethene	<4.0	ug/l	Y Cov	GEO32
Isopropylbenzene	<4.0	ug/l	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<4.0	ug/l	Y Cov	GEO32
1,2,3-Trichloropropane	<4.0	ug/l	Y Cov	GEO32
n-Propylbenzene	<4.0	ug/l	Y Cov	GEO32
Bromobenzene	<4.0	ug/l	Y Cov	GEO32
2-Chlorotoluene	<4.0	ug/l	Y Cov	GEO32
1,3,5-Trimethylbenzene	<4.0	ug/l	Y Cov	GEO32
4-Chlorotoluene	<4.0	ug/l	Y Cov	GEO32
tert-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
1,2,4-Trimethylbenzene	8.0	ug/l	Y Cov	GEO32
sec-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
p-Isopropyltoluene	<4.0	ug/l	Y Cov	GEO32
1,3-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,4-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
n-Butylbenzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dichlorobenzene	<4.0	ug/l	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<8.0	ug/l	Y Cov	GEO32
1,2,4-Trichlorobenzene	<4.0	ug/l	Y Cov	GEO32
Hexachlorobutadiene	<4.0	ug/l	Y Cov	GEO32
Naphthalene	<4.0	ug/l	Y Cov	GEO32
1,2,3-Trichlorobenzene	<4.0	ug/l	Y Cov	GEO32
MTBE	<4.0	ug/l	Y Cov	GEO32
Dibromofluoromethane	98.3	%Recovery	N Cov	GEO32
Toluene-d8	100.0	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	95.0	%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/796724/2011**

Issue **1**

Laboratory Number: **12526262**

Sample **5** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GW3**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 15:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

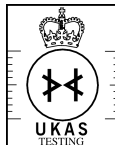
Test Description	Result	Units	Accreditation	Method
2-Chlorophenol	<10.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<10.0	ug/l	Y Cov	GEO40
2-Methylphenol	<10.0	ug/l	Y Cov	GEO40
3&4-Methylphenol	<10.0	ug/l	N Cov	GEO40
Dibenzofuran	<10.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<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	<50.0	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/796724/2011**

Issue **1**

Laboratory Number: **12526262**

Sample **5** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GW3**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 15:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 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	79.0	%Recovery	N Cov	GEO40
Phenol-d6	76.3	%Recovery	N Cov	GEO40
Nitrobenzene-d5	87.5	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	82.2	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	100.4	%Recovery	N Cov	GEO40
Terphenyl-d14	90.2	%Recovery	N Cov	GEO40
Selenium, Total as Se	0.022	mg/l	Y Cov	WAS051
Arsenic, Total as As	0.0206	mg/l	Y Cov	WAS051
Methane, Dissolved	5.1	mg/l	N Cov	62

Analyst Comments for 12526262:

## Severn Trent Services

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

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

Raised reporting limits for SVOC's due to sample matrix.

Results for Dichlorvos, Prometryn and Malathion are given as an indication only due to surrogate failure.

Sample was re-extracted but failure still occurred.



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: <b>02 September 2011</b>
	Title: <b>Inorganics Operations Manager</b>	

# Certificate of Analysis



1314  
1229  
0897  
4409



Report Number: **COV/796724/2011**

Issue **1**

Laboratory Number: **12527748**

Sample **6** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Tank Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 15:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.707	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.045	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.100	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	882	mg/l	Y Cov	WAS055
Sulphide as S	1.94	mg/l	Y Cov	WAS033

## Analyst Comments for 12527748:

Sample filtered through a 0.45um filter prior to analysis

For Sulphide analyse, sample was taken from 1L PET bottle as no sample pot was provided.

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: **02 September 2011**

Title:

**Inorganics 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/796724/2011**

Issue **1**

Laboratory Number: **12527749**

Sample **7** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 4 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 15:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.054	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.007	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.024	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	379	mg/l	Y Cov	WAS055
Sulphide as S	0.11	mg/l	Y Cov	WAS033

#### Analyst Comments for 12527749:

Sample filtered through a 0.45um filter prior to analysis  
For Sulphide Analyse, sample was taken from 1L PET bottle as no sample pot was provided.

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: **02 September 2011**

Title:

**Inorganics 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/796724/2011**

Issue **1**

Laboratory Number: **12527750**

Sample **8** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 1 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 15:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.078	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.013	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.018	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	472	mg/l	Y Cov	WAS055
Sulphide as S	0.07	mg/l	Y Cov	WAS033

## Analyst Comments for 12527750:

Sample filtered through a 0.45um filter prior to analysis

For Sulphide Analyse, sample was taken from 1L PET bottle as no sample pot was provided.

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: **02 September 2011**

Title:

**Inorganics 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/796724/2011**

Issue **1**

Laboratory Number: **12527751**

Sample **9** of **10**

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **Well 20 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 15:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.239	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.053	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.107	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	820	mg/l	Y Cov	WAS055
Sulphide as S	0.14	mg/l	Y Cov	WAS033

## Analyst Comments for 12527751:

Sample filtered through a 0.45um filter prior to analysis

For Sulphide Analyse, sample was taken from 1L PET bottle as no sample pot was provided.

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: **02 September 2011**

Title:

**Inorganics 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/796724/2011**

Issue **1**

Laboratory Number: **12527752**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description:

Sample Description: **GW3 Filtered**

Sample Matrix: **Ground waters**

Sample Date/Time: **03 August 2011 15:30**

Sample Received: **03 August 2011**

Analysis Complete: **19 August 2011**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	0.075	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.016	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.025	mg/l	Y Cov	WAS049
Ammoniacal Nitrogen as N	248	mg/l	Y Cov	WAS055
Sulphide as S	0.99	mg/l	Y Cov	WAS033

## Analyst Comments for 12527752:

Sample filtered through a 0.45um filter prior to analysis

For Sulphide Analyse, sample was taken from 1L PET bottle as no sample pot was provided.

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: **02 September 2011**

Title:

**Inorganics Operations Manager**

## Severn Trent Services

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