

Mr [REDACTED]
Telford & Wrekin Council
Lawn Central
Darby House
Telford TF3 4JA
Shropshire

08 January 2010

Test Report: COV/658475/2009

Dear Mr [REDACTED]

Analysis of your sample(s) submitted on 10 December 2009 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 STL and we look forward to receiving your next samples.

Yours Sincerely,

Signed: [REDACTED]

Name: [REDACTED]

Title: Deputy Manager

STL Coventry

STL Business Centre, Torrington Avenue,
Coventry, CV4 9GU

Tel: +44 (0)24 7642 1213

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Severn Trent Laboratories Limited

Registered in England & Wales Registration No. 2148934 Registered Office: 2297 Coventry Road, Birmingham B26



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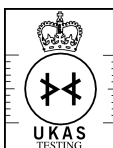


Cert. No. 10269
Environmental Management Systems



Certificate No. FS67435

Report Summary



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Mr [REDACTED]
Telford & Wrekin Council
Lawn Central
Darby House
Telford
Shropshire
TF3 4JA

Date of Issue: **24 December 2009**

Report Number: **COV/658475/2009**

Issue **2**

Job Description: Leachate Analysis

Job Location: Stoney Hill

Number of Samples
included in this report **1**

Job Received: **10 December 2009**

Number of Test Results
included in this report **225**

Analysis Commenced: **11 December 2009**

Signed:

[REDACTED SIGNATURE]

Name:

[REDACTED NAME]

Date: **24 December 2009**

Title: **Deputy Manager**

STL was not responsible for sampling unless otherwise stated. Sampling is not covered by our UKAS accreditation.

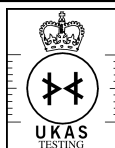
Information on the methods of analysis and performance characteristics are available on request.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

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Report Number: **COV/658475/2009**

Issue **2**

Laboratory Number: **11526911**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description: **Leachate**

Sample Description: **Dec Sample/Tank**

Sample Matrix: **Leachate**

Sample Date: **09 December 2009** Sample Received **10 December 2009** Analysis Complete: **24 December 2009**

Test Description	Result	Units	Accreditation	Method
Aluminium, Total as Al	1.0	mg/l	Y Cov	WAS049
Cadmium , Total as Cd	0.0036	mg/l	Y Cov	WAS049
Cadmium, Filtered as Cd	<0.0003	mg/l	Y Cov	WAS049
Chromium , Total as Cr	0.081	mg/l	Y Cov	WAS049
Copper, Total as Cu	0.099	mg/l	Y Cov	WAS049
Iron , Total as Fe	279	mg/l	Y Cov	WAS049
Lead , Total as Pb	0.11	mg/l	Y Cov	WAS049
Manganese , Total as Mn	2.59	mg/l	Y Cov	WAS049
Mercury, Filtered as Hg	0.002	mg/l	Y Cov	WAS013
Nickel , Total as Ni	0.0678	mg/l	Y Cov	WAS049
Zinc, Total as Zn	0.49	mg/l	Y Cov	WAS049
pH	7.5	pH units	Y Cov	WAS039
Ammoniacal Nitrogen as N	363	mg/l	Y Cov	WAS036
Suspended Solids	1400	mg/l	Y Cov	WAS006
BOD + ATU (5 day)	57	mg/l	Y Cov	WAS001
COD (Total)	880	mg/l	Y Cov	WAS040
Cyanide, Free as CN	<0.1	mg/l	Y Cov	WAS018
Cyanide, Total as CN	39	ug/l	Y Cov	WAS018
Phenols Mono (Phenol Index)	<0.1	mg/l	Y Cov	WAS019
Sulphide as S	64.20	mg/l	Y Cov	WAS033
1,2,3-Trichlorobenzene	<30	ng/l	Y Cov	GEO47
1,2,4-Trichlorobenzene	<30	ng/l	Y Cov	GEO47
1,3,5-Trichlorobenzene	<30	ng/l	Y Cov	GEO47
Aldrin	<30	ng/l	Y Cov	GEO47
alpha-Endosulphan	<30	ng/l	Y Cov	GEO47
alpha-HCH	<10	ng/l	Y Cov	GEO47
beta-Endosulphan	<30	ng/l	Y Cov	GEO47
beta-HCH	<10	ng/l	Y Cov	GEO47
alpha-Chlordane	<10	ng/l	Y Cov	GEO47
Dichlobenil	42	ng/l	Y Cov	GEO47
Dieldrin	<30	ng/l	Y Cov	GEO47
Endrin	<30	ng/l	Y Cov	GEO47
gamma-HCH	<10	ng/l	Y Cov	GEO47
Heptachlor Epoxide	<10	ng/l	Y Cov	GEO47
Hexachlorobenzene	<10	ng/l	Y Cov	GEO47

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Report Number: **COV/658475/2009**

Issue **2**

Laboratory Number: **11526911**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description: **Leachate**

Sample Description: **Dec Sample/Tank**

Sample Matrix: **Leachate**

Sample Date: **09 December 2009** Sample Received **10 December 2009** Analysis Complete: **24 December 2009**

Test Description	Result	Units	Accreditation	Method
Hexachlorobutadiene	<10	ng/l	Y Cov	GEO47
Isodrin	<30	ng/l	Y Cov	GEO47
o,p - DDE	<10	ng/l	Y Cov	GEO47
p,p - DDE	<10	ng/l	Y Cov	GEO47
o,p - TDE	<10	ng/l	Y Cov	GEO47
p,p - TDE	<10	ng/l	Y Cov	GEO47
o,p - DDT	<10	ng/l	Y Cov	GEO47
p,p - DDT	<10	ng/l	Y Cov	GEO47
Tecnazene	<50	ng/l	Y Cov	GEO47
gamma-Chlordane	<10	ng/l	Y Cov	GEO47
Triallate	<50	ng/l	Y Cov	GEO47
Trifluralin	<50	ng/l	Y Cov	GEO47
Azinphos-ethyl	<0.010	ug/l	Y Cov	GEO47
Azinphos-methyl	<0.010	ug/l	Y Cov	GEO47
Carbophenothion	<0.010	ug/l	Y Cov	GEO47
Chlorfenvinphos	<0.010	ug/l	Y Cov	GEO47
Chlorpyrifos	<0.010	ug/l	Y Cov	GEO47
Demeton-s-methyl	Analyst Comment	ug/l	Y Cov	GEO47
Diazinon	<0.010	ug/l	Y Cov	GEO47
Dichlorvos	<0.010	ug/l	Y Cov	GEO47
Dimethoate	<0.100	ug/l	Y Cov	GEO47
Disulphoton	<0.100	ug/l	Y Cov	GEO47
Fenitrothion	<0.010	ug/l	Y Cov	GEO47
Fenthion	<0.010	ug/l	Y Cov	GEO47
Malathion	<0.010	ug/l	Y Cov	GEO47
Mevinphos	<0.010	ug/l	Y Cov	GEO47
Parathion-ethyl	<0.010	ug/l	Y Cov	GEO47
Parathion-methyl	<0.010	ug/l	Y Cov	GEO47
Phorate	<0.010	ug/l	Y Cov	GEO47
Phosalone	<0.100	ug/l	Y Cov	GEO47
Pirimiphos-methyl	<0.010	ug/l	Y Cov	GEO47
Propetamphos	<0.100	ug/l	Y Cov	GEO47
Triazophos	<0.010	ug/l	Y Cov	GEO47
Atrazine	<0.100	ug/l	Y Cov	GEO47
Prometryne	<0.100	ug/l	Y Cov	GEO47

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Issue **2**

Laboratory Number: **11526911**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description: **Leachate**

Sample Description: **Dec Sample/Tank**

Sample Matrix: **Leachate**

Sample Date: **09 December 2009** Sample Received **10 December 2009** Analysis Complete: **24 December 2009**

Test Description	Result	Units	Accreditation	Method
Propazine	<0.100	ug/l	Y Cov	GEO47
Simazine	<0.100	ug/l	Y Cov	GEO47
Terbutryn	<0.100	ug/l	Y Cov	GEO47
Trietazine	<0.100	ug/l	Y Cov	GEO47
TPH >C6-C40	382	ug/l	Y Cov	GEO35
TPH >C6-C8	<20	ug/l	N Cov	GEO35
TPH >C8-C10	<20	ug/l	N Cov	GEO35
TPH >C16-C24	139	ug/l	N Cov	GEO35
TPH >C24-C40	<20	ug/l	N Cov	GEO35
TPH >C10-C16	243	ug/l	N Cov	GEO35
Acenaphthene	0.227	ug/l	Y Cov	GEO19
Acenaphthylene	<0.02	ug/l	Y Cov	GEO19
Anthracene	<0.02	ug/l	Y Cov	GEO19
Benzo (a) anthracene	0.047	ug/l	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.02	ug/l	Y Cov	GEO19
Benzo (a) pyrene	<0.02	ug/l	Y Cov	GEO19
Benzo (b) fluoranthene	<0.02	ug/l	Y Cov	GEO19
Benzo (k) fluoranthene	<0.02	ug/l	Y Cov	GEO19
Chrysene	<0.02	ug/l	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.02	ug/l	Y Cov	GEO19
Fluoranthene	0.041	ug/l	Y Cov	GEO19
Fluorene	0.129	ug/l	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.02	ug/l	Y Cov	GEO19
Naphthalene	0.943	ug/l	Y Cov	GEO19
Phenanthrene	0.149	ug/l	Y Cov	GEO19
Pyrene	0.052	ug/l	Y Cov	GEO19
PAH, Total	1.59	ug/l	N Cov	GEO19
Dichlorodifluoromethane	<10.0	ug/l	N Cov	GEO32
Chloromethane	<10.0	ug/l	Y Cov	GEO32
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

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Report Number: **COV/658475/2009**

Issue **2**

Laboratory Number: **11526911**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description: **Leachate**

Sample Description: **Dec Sample/Tank**

Sample Matrix: **Leachate**

Sample Date: **09 December 2009** Sample Received **10 December 2009** Analysis Complete: **24 December 2009**

Test Description	Result	Units	Accreditation	Method
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	<10.0	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
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

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Report Number: **COV/658475/2009**

Issue **2**

Laboratory Number: **11526911**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description: **Leachate**

Sample Description: **Dec Sample/Tank**

Sample Matrix: **Leachate**

Sample Date: **09 December 2009** Sample Received **10 December 2009** Analysis Complete: **24 December 2009**

Test Description	Result	Units	Accreditation	Method
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	N Cov	GEO32
Naphthalene	<10.0	ug/l	N Cov	GEO32
1,2,3-Trichlorobenzene	<10.0	ug/l	N Cov	GEO32
MTBE	<10.0	ug/l	N Cov	GEO32
Dibromofluoromethane	99.5	%Recovery	N Cov	GEO32
Toluene-d8	99.3	%Recovery	N Cov	GEO32
4-Bromofluorobenzene	90.6	%Recovery	N Cov	GEO32
SVOC	y	ug/l	Y Cov	GEO40
Phenol	<8.0	ug/l	Y Cov	GEO40
Bis(2-chloroethyl)ether	<8.0	ug/l	Y Cov	GEO40
2-Chlorophenol	<8.0	ug/l	Y Cov	GEO40
1,3-Dichlorobenzene	<8.0	ug/l	Y Cov	GEO40
1,4-Dichlorobenzene	<8.0	ug/l	Y Cov	GEO40
2-Methylphenol	<8.0	ug/l	N Cov	GEO40
3&4-Methylphenol	<8.0	ug/l	N Cov	GEO40
Dibenzofuran	<8.0	ug/l	N Cov	GEO40
1,2-Dichlorobenzene	<8.0	ug/l	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<8.0	ug/l	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<8.0	ug/l	Y Cov	GEO40
Hexachloroethane	<8.0	ug/l	Y Cov	GEO40
VOC	Y	ug/l	Y Cov	GEO32
Nitrobenzene	<8.0	ug/l	Y Cov	GEO40

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Report Number: **COV/658475/2009**

Issue **2**

Laboratory Number: **11526911**

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

Sample Source: **Telford & Wrekin Council**

Sample Point Description: **Leachate**

Sample Description: **Dec Sample/Tank**

Sample Matrix: **Leachate**

Sample Date: **09 December 2009** Sample Received **10 December 2009** Analysis Complete: **24 December 2009**

Test Description	Result	Units	Accreditation	Method
Isophorone	<8.0	ug/l	Y Cov	GEO40
2,4-Dimethylphenol	<8.0	ug/l	Y Cov	GEO40
2-Nitrophenol	<8.0	ug/l	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<16.0	ug/l	Y Cov	GEO40
2,4-Dichlorophenol	<8.0	ug/l	Y Cov	GEO40
1,2,4-Trichlorobenzene	<8.0	ug/l	Y Cov	GEO40
Naphthalene	<16.0	ug/l	Y Cov	GEO40
Hexachlorobutadiene	<8.0	ug/l	Y Cov	GEO40
4-Chloro-3-methylphenol	<8.0	ug/l	Y Cov	GEO40
2-Methylnaphthalene	<8.0	ug/l	Y Cov	GEO40
2,4,6-Trichlorophenol	<8.0	ug/l	Y Cov	GEO40
2,4,5-Trichlorophenol	<8.0	ug/l	Y Cov	GEO40
2-Chloronaphthalene	<8.0	ug/l	Y Cov	GEO40
Dimethylphthalate	<8.0	ug/l	Y Cov	GEO40
2,6-Dinitrotoluene	<8.0	ug/l	Y Cov	GEO40
Acenaphthylene	<8.0	ug/l	Y Cov	GEO40
Acenaphthene	<8.0	ug/l	Y Cov	GEO40
2,4-Dinitrotoluene	<8.0	ug/l	Y Cov	GEO40
Diethylphthalate	<8.0	ug/l	Y Cov	GEO40
4-Nitrophenol	<40.0	ug/l	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<8.0	ug/l	Y Cov	GEO40
Fluorene	<8.0	ug/l	Y Cov	GEO40
Diphenylamine	<8.0	ug/l	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<8.0	ug/l	Y Cov	GEO40
Hexachlorobenzene	<8.0	ug/l	Y Cov	GEO40
Pentachlorophenol	<8.0	ug/l	Y Cov	GEO40
Phenanthrene	<8.0	ug/l	Y Cov	GEO40
Anthracene	<8.0	ug/l	Y Cov	GEO40
di-n-Butylphthalate	<8.0	ug/l	Y Cov	GEO40
Fluoranthene	<8.0	ug/l	Y Cov	GEO40
Pyrene	<8.0	ug/l	Y Cov	GEO40
Benzyl Butyl Phthalate	<8.0	ug/l	Y Cov	GEO40
Benzo(a)anthracene	<8.0	ug/l	Y Cov	GEO40
Chrysene	<8.0	ug/l	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<80.0	ug/l	Y Cov	GEO40

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Report Number: **COV/658475/2009**
Laboratory Number: **11526911**

Issue **2**
Sample **1** of **1**

Sample Source: **Telford & Wrekin Council**
Sample Point Description: **Leachate**
Sample Description: **Dec Sample/Tank**
Sample Matrix: **Leachate**

Sample Date: **09 December 2009** Sample Received **10 December 2009** Analysis Complete: **24 December 2009**

Test Description	Result	Units	Accreditation	Method
Di-n-octylphthalate	<8.0	ug/l	Y Cov	GEO40
Benzo(b)fluoranthene	<8.0	ug/l	Y Cov	GEO40
Benzo(k)fluoranthene	<8.0	ug/l	Y Cov	GEO40
Benzo(a)pyrene	<8.0	ug/l	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<8.0	ug/l	Y Cov	GEO40
Dibenz(a,h)anthracene	<8.0	ug/l	Y Cov	GEO40
Benzo(g,h,i)perylene	<8.0	ug/l	Y Cov	GEO40
2-Fluorophenol	64.3	%Recovery	N Cov	GEO40
Phenol-d6	64.2	%Recovery	N Cov	GEO40
Nitrobenzene-d5	72.4	%Recovery	N Cov	GEO40
2-Fluorobiphenyl	71.8	%Recovery	N Cov	GEO40
2,4,6-Tribromophenol	89.2	%Recovery	N Cov	GEO40
Terphenyl-d14	73.4	%Recovery	N Cov	GEO40
Arsenic, Total as As	0.079	mg/l	Y Cov	WAS051
Methane, Dissolved	2.3	mg/l	N Mid	62

Analyst Comments for 11526911:

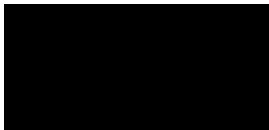
SVOC reporting limits raised due to nature of sample matrix.
Result for Demeton-s-methyl is unavailable due to AQC breach.
Reporting limits raised for TPH due to sample matrix.
VOC reporting limits raised due to nature of sample matrix.

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

Analysed at: Brd = STL Bridgend, Cov = STL Coventry, Mid = STL Midlands, Rea = STL Reading, Run = STL Runcorn, S = Subcontracted.

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: **24 December 2009**

Title: **Deputy Manager**