



Analytical Report

Envireau Water
 Cedars Farm Barn
 Market Street
 Draycott
 DE72 3NB

Report No: 13-32099/2
 Date Received: 21/05/2013
 Date Tested: 22/05/2013 to 26/07/2013
 Date Issued: 31/07/2013
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For the attention of: Penny Jenkinson

By email

1 water sample received from Envireau Water (O/N: EW/PJ/1484/94) in a 1 litre amber glass bottle was analysed as shown below. Analytical methods employed are available on request.

Laboratory reference			227072 2/IW
1234678-HpCDD*	[35822-46-9]	ng/l	< 0.0050
1234678-HpCDF*	[67562-39-4]	ng/l	< 0.0050
123478-HxCDD*	[39227-28-6]	ng/l	< 0.0050
123478-HxCDF*	[70648-26-9]	ng/l	< 0.0050
1234789-HpCDF*	[55673-89-7]	ng/l	< 0.0050
123678-HxCDD*	[57653-85-7]	ng/l	< 0.0050
123678-HxCDF*	[57117-44-9]	ng/l	< 0.0050
12378-PCDD*	[40321-76-4]	ng/l	< 0.0050
12378-PCDF*	[57117-41-6]	ng/l	< 0.0050
123789-HxCDD*	[19408-74-3]	ng/l	< 0.0050
123789-HxCDF*	[72918-21-9]	ng/l	< 0.0050
234678-HxCDF*	[60851-34-5]	ng/l	< 0.0050
23478-PCDF*	[57117-31-4]	ng/l	< 0.0050
2378-TCDD*	[1746-01-6]	ng/l	< 0.0050
2378-TCDF*	[51207-31-9]	ng/l	< 0.0050
OCDD*	[3268-87-9]	ng/l	< 0.0050
OCDF*	[39001-02-0]	ng/l	< 0.0050
TEQ (Nato) at LOD*	n/a	ng/l	0.0154
TEQ (Nato) at zero*	n/a	ng/l	< 0.0002
aluminium*	[7429-90-5]	ug/l	63.0
calcium*	[7440-70-2]	mg/l	6700
copper*	[7440-50-8]	ug/l	< 2.0
iron*	[7439-89-6]	mg/l	0.32
magnesium*	[7439-95-4]	mg/l	620
manganese*	[7439-96-5]	ug/l	220
potassium*	[7440-09-7]	mg/l	5300

This method is UKAS accredited. Opinions and interpretations are not accredited.



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Laboratory reference			227072 2/IW
sodium*	[7440-23-5]	mg/l	84000
zinc*	[7440-66-6]	ug/l	11.0
diesel range organics*	n/a	ug/l	S/C
mineral oils*	n/a	ug/l	S/C
petrol range organics*	n/a	ug/l	S/C
2,4,5-T	[93-76-5]	ug/l	< 0.20
2,4-D	[94-75-7]	ug/l	< 0.20
2,4-DB	[94-82-6]	ug/l	< 0.20
bentazone	[25057-89-0]	ug/l	< 0.02
bromoxynil	[1689-84-5]	ug/l	< 0.20
dalapon	[75-99-0]	ug/l	< 0.02
dicamba	[1918-00-9]	ug/l	< 0.02
dichlorprop (2,4-DP)	[120-36-5]	ug/l	< 0.20
fluroxypyr	[69377-81-7]	ug/l	< 0.20
ioxynil	[1689-83-4]	ug/l	< 0.02
MCPA	[94-74-6]	ug/l	< 0.20
MCPB	[94-81-5]	ug/l	< 0.02
pentachlorophenol	[87-86-5]	ug/l	< 0.20
benazolin	[3813-05-6]	ug/l	< 0.20
clopyralid	[1702-17-6]	ug/l	< 0.20
flamprop-isopropyl	[52756-22-6]	ug/l	< 0.20
triclopyr	[55335-06-3]	ug/l	< 0.20
propanil	[709-98-8]	ug/l	< 0.02
formaldehyde	[50-00-0]	ug/l	< 50
alkalinity (as CaCO ₃)	n/a	mg/l	142
tributylphosphate	[126-73-8]	ug/l	< 0.20
amitrole	[61-82-5]	ug/l	< 0.20
ammonia	[7664-41-7]	ug/l NH ₃	46900
chloride	[16887-00-6]	mg/l	170000
fluoride	[16984-48-8]	mg/l	< 100.0
nitrate	[14797-55-8]	mg/l	< 1000.0
nitrite	[14797-65-0]	mg/l	< 1000.0
phosphate	[14265-44-2]	mg/l	< 100.0
sulfate	[14808-79-8]	mg/l	1050
asulam	[3337-71-1]	ug/l	< 1.00
2-chloro-p-toluidine	[615-65-6]	ug/l	< 0.20

Laboratory reference	227072 2/W
3-chloro-p-toluidine [95-74-9] ug/l	< 0.20
4-chloro-m-toluidine [7149-75-9] ug/l	< 0.20
4-chloro-o-toluidine [95-69-2] ug/l	< 0.20
6-chloro-m-toluidine [915-81-8] ug/l	< 0.20
3,3'-dichlorobenzidine [91-94-1] ug/l	< 0.20
bromacil [314-40-9] ug/l	< 0.20
carbendazim [10605-21-7] ug/l	< 0.10
imidacloprid [138261-41-3] ug/l	< 0.20
benzalkonium chloride [8001-54-5] ug/l	< 100.0
chlormequat [999-81-5] ug/l	< 1.00
chlorine (total) [7782-50-5] mg/l	< 0.10
2-chloroaniline [95-51-2] ug/l	< 0.20
3,4-dichloroaniline [95-76-1] ug/l	< 0.20
3-chloroaniline [108-42-9] ug/l	< 0.20
4-chloroaniline [106-47-8] ug/l	< 0.20
1,2-dichloro-3-nitrobenzn [3209-22-1] ug/l	< 0.20
1,4-dichloro-2-nitrobenzn [89-61-2] ug/l	< 0.20
2-chloronitrobenzene [88-73-3] ug/l	< 0.20
3,4-dichloronitrobenzene [99-54-7] ug/l	< 0.20
3-chloronitrobenzene [121-73-3] ug/l	< 0.20
4-chloronitrobenzene [100-00-5] ug/l	< 0.20
chloro-2,4-dinitrobenzene [97-00-7] ug/l	< 0.20
2-chloro-4-nitrotoluene [121-86-8] ug/l	< 0.20
conductivity n/a uS/cm	208000
carbetamide [16118-49-3] ug/l	< 0.1
chlorbufam [1967-16-4] ug/l	< 1.0
chlorpropham [101-21-3] ug/l	< 0.2
IPBC [55406-53-6] ug/l	< 1.0
phenmedipham [13684-63-4] ug/l	< 0.1
pirimicarb [23103-98-2] ug/l	< 0.1
propham [122-42-9] ug/l	< 1.0
(2-naphthoxy)acetic acid [120-23-0] ug/l	< 0.20
1-naphthylacetic acid [86-87-3] ug/l	< 0.20
4-indole-3-butyric acid [133-32-4] ug/l	< 0.20
total gibberellins & acid n/a ug/l as GA	U/S
carbon disulfide [75-15-0] ug/l	< 10

Laboratory reference			227072 2/W
cyanuric chloride	[108-77-0]	ug/l	< 1.00
1,3-dichloro-2-propanol	[96-23-1]	mg/l	< 10.0
dichlorophen	[97-23-4]	ug/l	< 0.20
dithianon	[3347-22-6]	mg/l	< 0.20
dikegulac sodium	[52508-35-7]	ug/l	U/S
drazoxolon	[5707-69-7]	mg/l	< 0.20
cationic detergents	n/a	mg/l	< 1.0
carbon disulfide	[75-15-0]	ug/l CS2	< 1.0
dithiocarbamates (as CS2)	n/a	ug/l CS2	< 1.0
thiram (as CS2)	[137-26-8]	ug/l CS2	< 1.0
ziram	[137-30-4]	ug/l CS2	< 1.0
epichlorohydrin	[106-89-8]	mg/l	< 0.1
ethephon	[16672-87-0]	mg/l	< 0.2
flumethrin	[69770-45-2]	ug/l	< 0.20
fluazinam	[79622-59-6]	ug/l	< 0.2
fomesafen	[72178-02-0]	ug/l	U/S
benomyl	[17804-35-2]	ug/l	< 0.2
oxycarboxin	[5259-88-1]	ug/l	< 0.2
thiophanate-methyl	[23564-05-8]	ug/l	< 1.0
propamocarb	[24579-73-5]	ug/l	< 0.50
furalaxyl	[57646-30-7]	ug/l	< 0.20
1,6-dichlorohexane	[2163-00-0]	ug/l	< 0.1
1-chlorohexane	[544-10-5]	ug/l	< 0.1
2,3-dichloropropene	[78-88-6]	ug/l	< 0.2
2-chloroethanol	[107-07-3]	ug/l	< 0.1
3-chloroprene	[107-05-1]	ug/l	< 0.1
3-chlorotoluene	[108-41-8]	ug/l	< 0.1
benzyl chloride	[100-44-7]	ug/l	< 0.1
bis(2-chloroisopropyl)eth	[108-60-1]	ug/l	< 0.1
chloroprene	[126-99-8]	ug/l	< 0.1
ethyl dichloroarsine	[598-14-1]	ug/l	< 0.1
freon TF (113)	[76-13-1]	ug/l	< 10.0
hexachloroethane	[67-72-1]	ug/l	< 0.1
pentachloroethane	[76-01-7]	ug/l	< 0.1
trichloroethanal	[75-87-6]	ug/l	< 0.1
trichloroethane	[25323-89-1]	ug/l	< 0.1

Laboratory reference	227072 2/W
butyl glycol [111-76-2] mg/l	< 10.0
ethylene glycol [107-21-1] mg/l	< 10.0
glyphosate [1071-83-6] ug/l	< 0.20
chloroacetic acid [79-11-8] ug/l	< 1.00
trichloroacetic acid [76-03-9] ug/l	< 1.00
alloxydim [55635-13-7] ug/l	< 0.2
oryzalin [19044-88-3] ug/l	< 0.2
sethoxydim [74051-80-2] ug/l	< 0.2
rotenone [83-79-4] ug/l	< 0.2
iodine [7553-56-2] mg/l	< 0.05
iprodione [36734-19-7] ug/l	< 0.20
chloromethylisothiazolone [26172-55-4] ug/l	< 10000.0
octylisothiazolone [26530-20-1] ug/l	< 100.0
dodine [2439-10-3] ug/l	< 1.00
guatazine [108173-90-6] ug/l	< 1.00
malachite green [2437-29-8] ug/l	< 10.0
maleic hydrazide [123-33-1] mg/l	< 0.50
anionic detergents n/a mg/l	0.2
mercury [7439-97-6] ug/l	< 0.10
cadmium [7440-43-9] ug/l	< 0.10
metham sodium (as CS2) [137-42-8] ug/l CS2	< 50.00
metaldehyde [9002-91-9] ug/l	< 0.20
aldicarb (LC) [116-06-3] ug/l	< 0.50
bendiocarb (LC) [22781-23-3] ug/l	< 0.50
carbaryl (LC) [63-25-2] ug/l	< 0.50
carbofuran (LC) [1563-66-2] ug/l	< 0.50
methiocarb (LC) [2032-65-7] ug/l	< 0.50
oxamyl (LC) [23135-22-0] ug/l	< 1.00
propoxur (LC) [114-26-1] ug/l	< 0.50
aldrin # [309-00-2] ug/l	< 0.20
alpha-HCH # [319-84-6] ug/l	< 0.20
beta-HCH # [319-85-7] ug/l	< 0.20
cis-chlordane # [5103-71-9] ug/l	< 0.20
delta-HCH # [319-86-8] ug/l	< 0.20
dieldrin # [60-57-1] ug/l	< 0.20
endosulfan A # [959-98-8] ug/l	< 0.20

Laboratory reference			227072 2/W
endosulfan B #	[33213-65-9]	ug/l	< 0.20
endrin #	[72-20-8]	ug/l	< 0.20
gamma-HCH (lindane) #	[58-89-9]	ug/l	< 0.20
heptachlor #	[76-44-8]	ug/l	< 0.20
hexachlorobenzene (HCB) #	[118-74-1]	ug/l	< 0.20
isodrin #	[465-73-6]	ug/l	< 0.20
o,p'-DDD #	[53-19-0]	ug/l	< 0.20
o,p'-DDE #	[3424-82-6]	ug/l	< 0.20
o,p'-DDT #	[789-02-6]	ug/l	< 0.20
p,p'-DDD #	[72-54-8]	ug/l	< 0.20
p,p'-DDE #	[72-55-9]	ug/l	< 0.20
p,p'-DDT #	[50-29-3]	ug/l	< 0.20
total DDTs	n/a	ug/l	1.20
total HCHs	n/a	ug/l	0.80
trans-chlordane #	[5103-74-2]	ug/l	< 0.20
trifluralin #	[1582-09-8]	ug/l	< 0.20
1,2,3,4-tetrachlorobenzen	[634-66-2]	ug/l	< 0.20
1,2,3,5-tetrachlorobenzen	[634-90-2]	ug/l	< 0.20
1,2,4,5-tetrachlorobenzen	[95-94-3]	ug/l	< 0.20
alachlor	[15972-60-8]	ug/l	< 0.20
chloridazon	[1698-60-8]	ug/l	< 0.20
chlorothalonil	[1897-45-6]	ug/l	< 0.20
dichlobenil	[1194-65-6]	ug/l	< 0.20
dichlofluanid	[1085-98-9]	ug/l	< 0.20
dicloran	[99-30-9]	ug/l	< 0.20
dicofol	[115-32-2]	ug/l	< 0.20
pentachlorobenzene	[608-93-5]	ug/l	< 0.20
prochloraz	[67747-09-5]	ug/l	< 0.20
propachlor	[1918-16-7]	ug/l	< 0.20
propiconazole	[60207-90-1]	ug/l	< 0.20
propyzamide	[23950-58-5]	ug/l	< 0.20
quintozene	[82-68-8]	ug/l	< 0.20
tetradifon	[116-29-0]	ug/l	< 0.20
triadimefon	[43121-43-3]	ug/l	< 0.20
triallate	[2303-17-5]	ug/l	< 0.20
triallate	[2303-17-5]	ug/l	< 0.20

Laboratory reference	227072 2/W
azinphos-ethyl [2642-71-9] ug/l	< 0.20
coumaphos [56-72-4] ug/l	< 0.20
pyrazophos [13457-18-6] ug/l	< 0.20
triazofos [24017-47-8] ug/l	< 0.20
azinphos-methyl [86-50-0] ug/l	< 0.20
chlorfenvinphos [470-90-6] ug/l	< 0.20
chlorpyriphos-ethyl [2921-88-2] ug/l	< 0.20
diazinon [333-41-5] ug/l	< 0.20
dichlorvos [62-73-7] ug/l	< 0.20
dimethoate [60-51-5] ug/l	< 0.20
disulfoton [298-04-4] ug/l	< 0.20
fenchlorphos [299-84-3] ug/l	< 0.20
fenitrothion [122-14-5] ug/l	< 0.20
fenthion [55-38-9] ug/l	< 0.20
fonofos [944-22-9] ug/l	< 0.20
heptenophos [23560-59-0] ug/l	< 0.20
malathion [121-75-5] ug/l	< 0.20
methamidophos [10265-92-6] ug/l	< 0.20
methidathion [950-37-8] ug/l	< 0.20
mevinphos, (E) [7786-34-7] ug/l	< 0.20
mevinphos, (Z) [338-45-4] ug/l	< 0.20
parathion-ethyl [56-38-2] ug/l	< 0.20
parathion-methyl [298-00-0] ug/l	< 0.20
phorate [298-02-2] ug/l	< 0.20
pirimiphos-methyl [29232-93-7] ug/l	< 0.20
propetamphos [31218-83-4] ug/l	< 0.20
tetrachlorvinphos [22248-79-9] ug/l	< 0.20
tolclofos-methyl [57018-04-9] ug/l	< 0.20
demeton [8065-48-3] ug/l	< 0.20
demeton-S-methyl sulphone [17040-19-6] ug/l	< 0.20
ethoprophos [13194-48-4] ug/l	< 0.20
omethoate [1113-02-6] ug/l	< 0.20
oxydemeton-methyl [301-12-2] ug/l	< 0.20
quinalphos [13593-03-8] ug/l	< 0.20
phosalone [2310-17-0] ug/l	< 0.20
dibutylbis(oxy-lauroyl)tin [77-58-7] ug/l as Sn	< 0.20

Laboratory reference	227072 2/W
dibutyltin [1002-53-5] ug/l as Sn	< 0.02
fenbutatin oxide [13356-08-6] ug/l as Sn	< 0.02
fentin n/a ug/l as Sn	< 0.02
tetrabutyltin [1461-25-2] ug/l as Sn	< 0.02
tributyltin [56573-85-4] ug/l as Sn	< 0.02
triphenyltin [668-34-8] ug/l as Sn	< 0.05
acenaphthene [83-32-9] ug/l	< 0.20
anthracene [120-12-7] ug/l	< 0.20
benzo(a)pyrene [50-32-8] ug/l	< 0.20
benzo(b)fluoranthene [205-99-2] ug/l	< 0.20
benzo(g,h,i)perylene [191-24-2] ug/l	< 0.20
benzo(k)fluoranthene [207-08-9] ug/l	< 0.20
creosote [8001-58-9] ug/l	1.76
fluoranthene [206-44-0] ug/l	< 0.20
fluorene [86-73-7] ug/l	< 0.20
indeno(1,2,3-c,d)pyrene [193-39-5] ug/l	< 0.20
naphthalene [91-20-3] ug/l	< 0.20
phenanthrene [85-01-8] ug/l	< 0.20
decabromodiphenyl ether [1163-19-5] ug/l	< 0.20
octabromodiphenyl ethers [32536-52-0] ug/l	< 0.20
pentabromodiphenyl ethers [32534-81-9] ug/l	< 0.20
PCB congener 101 [37680-73-2] ug/l	< 0.200
PCB congener 118 [31508-00-6] ug/l	< 0.200
PCB congener 138 [35065-28-2] ug/l	< 0.200
PCB congener 153 [35065-27-1] ug/l	< 0.200
PCB congener 180 [35065-29-3] ug/l	< 0.200
PCB congener 28 [7012-37-5] ug/l	< 0.200
PCB congener 52 [35693-99-3] ug/l	< 0.200
1-F-4-isocyanatobenzene [1195-45-5] ug/l	< 0.2
2,4,5-trichlorophenol [95-95-4] ug/l	< 0.20
2,4,6-trichlorophenol [88-06-2] ug/l	< 0.20
2,4-dichlorophenol [120-83-2] ug/l	< 0.20
2,6-dichlorophenol [87-65-0] ug/l	< 0.20
2-chlorophenol [95-57-8] ug/l	< 0.20
4-chloro-2-methylphenol [1570-64-5] ug/l	< 0.20
4-chloro-3-methylphenol [59-50-7] ug/l	< 0.20

Laboratory reference			227072 2/W
o-cresol (2-methylphenol)	[95-48-7]	ug/l	< 0.20
phenol	[108-95-2]	ug/l	< 0.20
total trichlorophenols	[933-75-5]	ug/l	< 0.20
2,3-dichlorophenol	[576-24-9]	ug/l	< 0.10
3-chlorophenol	[108-43-0]	ug/l	< 0.20
4-chlorophenol	[106-48-9]	ug/l	< 0.20
phosphoric acid	[7664-38-2]	mg/l	0.3
pH	n/a	pH units	5.6
cycloxydim	[101205-02-1]	ug/l	< 0.20
2-benzyl-4-chlorophenol	[120-32-1]	ug/l	< 0.20
imazaquin	[81335-37-7]	ug/l	< 0.20
2,4-dichlorophenoxyanilin	[14861-17-7]	ug/l	< 0.20
2-amino-4-chlorophenol	[95-85-2]	ug/l	< 0.20
4-chloro-2-nitroaniline	[89-63-4]	ug/l	< 0.20
anilazine	[101-05-3]	ug/l	< 0.20
N-(4-BrPh)Me-1,2-EtDiamn	[33855-47-9]	ug/l	U/S
captan	[133-06-2]	ug/l	< 0.20
dienochlor	[2227-17-0]	ug/l	< 0.20
hexachloronorboreniene	[3389-71-7]	ug/l	< 0.20
pentanochlor	[2307-38-8]	ug/l	< 0.20
1-chloronaphthalene	[90-13-1]	ug/l	< 0.20
2-chloroanthraquinone	[82-44-0]	ug/l	< 0.20
a-trifluoro-2-nitrotoluen	n/a	ug/l	< 0.20
a-trifluoro-3-nitrotoluen	n/a	ug/l	< 0.20
a-trifluoro-4-nitrotoluen	n/a	ug/l	< 0.20
a-trifluoronitrochlorotol	n/a	ug/l	< 0.20
azaperone	[1649-18-9]	ug/l	< 0.20
benalaxyl	[71626-11-4]	ug/l	< 0.20
benodanil	[15310-01-7]	ug/l	< 0.20
benzylidene chloride	[98-87-3]	ug/l	< 0.20
bifenox	[42576-02-3]	ug/l	< 0.20
bitertanol	[55179-31-2]	ug/l	< 0.20
bromoxynil octanoate	[1689-99-2]	ug/l	< 0.20
carbosulfan	[55285-14-8]	ug/l	< 0.20
carboxin	[5234-68-4]	ug/l	< 0.20
chlorthal-dimethyl	[1861-32-1]	ug/l	< 0.20

Laboratory reference			227072 2/W
clodinafop-propargyl	[105512-06-9]	ug/l	< 0.20
clofentezine	[74115-24-5]	ug/l	U/S
cresyldiphenyl phosphate	[26444-49-5]	ug/l	< 0.20
daminozide	[1596-84-5]	ug/l	< 0.20
dazomet	[533-74-4]	ug/l	< 0.20
desmedipham	[13684-56-5]	ug/l	U/S
diclofop-methyl	[51338-27-3]	ug/l	< 0.20
dimethomorph	[110488-70-5]	ug/l	< 0.20
dinocap	[39300-45-3]	ug/l	< 0.20
diphenamid	[957-51-7]	ug/l	< 0.20
diphenylamine	[122-39-4]	ug/l	< 0.20
diphenylchloroarsine	[712-48-1]	ug/l	< 0.20
dodecyl benzene	[123-01-3]	ug/l	< 0.20
dodemorph	[1593-77-7]	ug/l	< 0.20
ethirimol	[23947-60-6]	ug/l	< 0.20
etridiazole	[2593-15-9]	ug/l	< 0.20
fenoxaprop-ethyl	[82110-72-3]	ug/l	< 0.20
fenoxaprop-p-ethyl	[71283-80-2]	ug/l	< 0.20
fenpiclonil	[74738-17-3]	ug/l	< 0.20
fenpropidin	[67306-00-7]	ug/l	< 0.20
fenpropimorph	[67564-91-4]	ug/l	< 0.20
fluroglycofen-ethyl	[77501-90-7]	ug/l	U/S
fuberidazole	[3878-19-1]	ug/l	< 0.20
hexachloronaphthalene	[1335-87-1]	ug/l	< 0.20
hexazinone	[51235-04-2]	ug/l	< 0.20
hymexazol	[10004-44-1]	ug/l	< 0.20
imazalil	[35554-44-0]	ug/l	< 0.20
imazamethabenz-methyl	[81405-85-8]	ug/l	< 0.20
lenacil	[2164-08-1]	ug/l	< 0.20
mephosfolan	[950-10-7]	ug/l	< 0.20
metamitron	[41394-05-2]	ug/l	< 0.50
metribuzin	[21087-64-9]	ug/l	< 0.20
napropamide	[15299-99-7]	ug/l	< 0.20
nicotine	[54-11-5]	ug/l	< 0.20
nitrothal-isopropyl	[10552-74-6]	ug/l	< 0.20
nuarimol	[63284-71-9]	ug/l	< 0.20

Laboratory reference	227072 2/W
ofurace [58810-48-3] ug/l	< 0.20
oxadixyl [77732-09-3] ug/l	< 0.20
propaquizafop [111479-05-1] ug/l	< 0.20
pyrifenox [88283-41-4] ug/l	< 0.20
quinomethionate [2439-01-2] ug/l	< 0.20
quizalofop-ethyl [76578-14-8] ug/l	< 0.20
tebutam [35256-85-0] ug/l	< 0.20
terbacil [5902-51-2] ug/l	< 0.20
thiabendazole [148-79-8] ug/l	< 0.20
thiometon [640-15-3] ug/l	< 0.20
tralkoxydim [87820-88-0] ug/l	< 0.20
triazoxide [72459-58-6] ug/l	U/S
triclesyl phosphate [1330-78-5] ug/l	< 0.20
triforine [26644-46-2] ug/l	< 1.00
trioctylphosphate [25103-12-2] ug/l	< 0.20
triphenylphosphate [115-86-6] ug/l	< 0.20
TRIS [126-72-7] ug/l	U/S
trixylenylphosphate [25653-16-1] ug/l	< 0.20
vamidotion [2275-23-2] ug/l	< 0.20
vinclozolin [50471-44-8] ug/l	< 0.20
amitraz [33089-61-1] ug/l	< 1.00
anthraquinone [84-65-1] ug/l	< 0.20
bupirimate [41483-43-6] ug/l	< 0.20
cymoxanil [57966-95-7] ug/l	< 0.20
diflufenican [83164-33-4] ug/l	< 0.20
ethofumesate [26225-79-6] ug/l	< 0.20
fenarimol [60168-88-9] ug/l	< 0.20
fluazifop-P-butyl [79241-46-6] ug/l	< 0.20
isoxaben [82558-50-7] ug/l	< 0.20
metalaxyl [57837-19-1] ug/l	< 0.20
metazachlor [67129-08-2] ug/l	< 0.20
myclobutanil [88671-89-0] ug/l	< 0.20
oxadiazon [19666-30-9] ug/l	< 0.20
pendimethalin [40487-42-1] ug/l	< 0.20
pyridate [55512-33-9] ug/l	< 0.20
cyfluthrin [68359-37-5] ug/l	< 0.20

Laboratory reference			227072 2/W
cyhalothrin	[91465-08-6]	ug/l	< 0.20
cypermethrin	[52315-07-8]	ug/l	< 0.20
deltamethrin	[52918-63-5]	ug/l	< 0.20
fenvalerate	[51630-58-1]	ug/l	< 0.20
permethrin	[52645-53-1]	ug/l	< 0.20
resmethrin	[10453-86-8]	ug/l	< 0.20
tetramethrin	[7696-12-0]	ug/l	< 0.20
alpha-cypermethrin	[67375-30-8]	ug/l	< 0.20
bifenthrin	[82657-04-3]	ug/l	< 0.20
cypermethrin	[52315-07-8]	ug/l	< 0.20
deltamethrin	[52918-63-5]	ug/l	< 0.20
esfenvalerate	[66230-04-4]	ug/l	< 0.20
fenpropathrin	[39515-41-8]	ug/l	< 0.20
fenvalerate	[51630-58-1]	ug/l	< 0.20
flucythrinate	[70124-77-5]	ug/l	< 0.20
lambda-cyhalothrin	[91465-08-6]	ug/l	< 0.20
permethrin	[52645-53-1]	ug/l	< 0.20
tefluthrin	[79538-32-2]	ug/l	< 0.20
difenzoquat	[49866-87-7]	ug/l	< 1.00
diquat	[231-36-7]	ug/l	< 5000.00
mepiquat	[24307-26-4]	ug/l	< 1.00
paraquat	[4685-14-7]	ug/l	< 25000.00
methyl tert-butyl ether	[1634-04-4]	mg/l	< 1.0
total dissolved solids	n/a	mg/l	349000
thiodicarb	[59669-26-0]	ug/l	< 0.5
trichlorfon	[52-68-6]	mg/l	< 0.20
cyproconazole	[94361-06-5]	ug/l	< 0.20
diclobutrazol	[75736-33-3]	ug/l	< 0.20
difenoconazole	[119446-68-3]	ug/l	< 0.20
epoxiconazole	[135319-73-2]	ug/l	< 0.20
flusilazole	[85509-19-9]	ug/l	< 0.20
flutriafol	[76674-21-0]	ug/l	< 0.20
hexaconazole	[79983-71-4]	ug/l	< 0.20
paclobutrazol	[76738-62-0]	ug/l	< 0.20
penconazole	[66246-88-6]	ug/l	< 0.20
tebuconazole	[107534-96-3]	ug/l	< 0.20

Laboratory reference			227072 2/W
triadimenol	[55219-65-3]	ug/l	< 0.20
atrazine	[1912-24-9]	ug/l	< 0.20
cyanazine	[21725-46-2]	ug/l	< 0.20
simazine	[122-34-9]	ug/l	< 0.20
terbuthylazine	[5915-41-3]	ug/l	< 0.20
trietazine	[1912-26-1]	ug/l	< 0.20
aziprotryne	[4658-28-0]	ug/l	< 0.02
desmetryne	[1014-69-3]	ug/l	< 0.20
prometryn	[7287-19-6]	ug/l	< 0.20
terbutryn	[886-50-0]	ug/l	< 0.02
chloroxuron	[1982-47-4]	ug/l	< 0.10
chlortoluron	[15545-48-9]	ug/l	< 0.10
diflubenzuron	[35367-38-5]	ug/l	< 0.10
diuron	[330-54-1]	ug/l	< 0.10
isoproturon	[34123-59-6]	ug/l	< 0.10
linuron	[330-55-2]	ug/l	< 0.10
methabenzthiazuron	[18691-97-9]	ug/l	< 0.10
metoxuron	[19937-59-8]	ug/l	< 0.10
monolinuron	[1746-81-2]	ug/l	< 0.10
prosulfuron	[94125-34-5]	ug/l	< 5.0
teflubenzuron	[83121-18-0]	ug/l	< 1.0
triasulfuron	[82097-50-5]	ug/l	< 0.1
amidosulfuron	[120923-37-7]	ug/l	< 0.50
fenuron	[101-42-8]	ug/l	< 0.10
metsulfuron-methyl	[74223-64-6]	ug/l	< 0.10
thifensulfuron-methyl	[79277-27-3]	ug/l	< 0.10
tribenuron-methyl	[101200-48-0]	ug/l	< 0.10
1,1,1-trichloroethane	[71-55-6]	ug/l	< 1.0
1,1,2,2-tetrachloroethane	[79-34-5]	ug/l	< 1.0
1,1,2-trichloroethane	[79-00-5]	ug/l	37.2
1,1-dichloroethane	[75-34-3]	ug/l	< 1.0
1,1-dichloroethene	[75-35-4]	ug/l	< 1.0
1,2,4-trichlorobenzene	[120-82-1]	ug/l	< 1.0
1,2,4-trimethylbenzene	[95-63-6]	ug/l	50.2
1,2-dibromoethane	[106-93-4]	ug/l	< 1.0
1,2-dichlorobenzene	[95-50-1]	ug/l	< 1.0

Laboratory reference	227072 2/W
1,2-dichloroethane [107-06-2] ug/l	< 1.0
1,2-dichloropropane [78-87-5] ug/l	3.4
1,3-dichlorobenzene [541-73-1] ug/l	< 1.0
1,4-dichlorobenzene [106-46-7] ug/l	< 1.0
2-chlorotoluene [95-49-8] ug/l	< 1.0
4-chlorotoluene [106-43-4] ug/l	< 1.0
benzene [71-43-2] ug/l	3470
carbon tetrachloride [56-23-5] ug/l	< 1.0
chlorobenzene [108-90-7] ug/l	< 1.0
chloroform [67-66-3] ug/l	1.3
cis-1,2-dichloroethene [156-59-2] ug/l	< 1.0
cis-1,3-dichloropropene [10061-01-5] ug/l	< 1.0
dichloromethane [75-09-2] ug/l	8.3
ethyl benzene [100-41-4] ug/l	53.0
HCBD [87-68-3] ug/l	< 1.0
m- & p-xylene [co-elute] ug/l	138
o-xylene [95-47-6] ug/l	91.8
styrene [100-42-5] ug/l	< 1.0
tetrachloroethene [127-18-4] ug/l	< 1.0
toluene [108-88-3] ug/l	1850
trans-1,2-dichloroethene [156-60-5] ug/l	< 1.0
trans-1,3-dichloropropene [10061-02-6] ug/l	< 1.0
trichloroethene [79-01-6] ug/l	< 1.0
vinyl chloride [75-01-4] ug/l	< 1.0
1-bromopropane [106-94-5] ug/l	72.8
chloropicrin [76-06-2] ug/l	< 1.0
tetrabromoethane [79-27-6] ug/l	< 1.00

* Starred analyses were subcontracted.

This report replaces report 13-32099/1 in its entirety.

Report No: 13-32099/2
Date Received: 21/05/2013
Date Tested: 22/05/2013 to 26/07/2013
Date Issued: 31/07/2013
Page: 15 of 15

Comment:

Comments

S/C (see comment)

The sample contained significant amounts of chloride plus other salts which subsequently affected the analysis of certain compounds in the suite. Where possible dilution steps were introduced to enable analysis to take place but where analysis was not successful these have been reported as U/S (unsuitable sample).

Speciated TPH results were supplied by a subcontract laboratory as follows (ug/L):

aliphatic C5-C6:	280
aliphatic C6-C8:	1200
aliphatic C8-C10:	610
aliphatic C10-C12:	820
aliphatic C12-C16:	550
aliphatic C16-C21:	75
aliphatic C21-C35:	73
aromatic C5-C7:	1600
aromatic C7-C8:	1100
aromatic C8-C10:	940
aromatic C10-C12:	120
aromatic C12-C16:	72
aromatic C16-C21:	5.9
aromatic C21-C35:	<1.0
aliphatic C5-C35:	3600
aromatic C5-C35:	3800
TPH ali/aro:	7400

This sample was processed according to the SVOC protocol with half of the DCM extract being methylated prior to analysis. Extracts were run using the SVOC GC-MS method but with an extended scan range to 650 amu to cover some of the higher boiling point compounds. The total ion count (TIC) traces were library searched against the NIST 2010 library. No residues were detected for the listed compounds at the 0.2µg/l level.

Fluoride, phosphate and sulphate was diluted 1:1000 due to high conductivity over 5000uS/cm. Nitrite and Nitrate were diluted 1:10,000 due to chloride interference. The result for chloride was diluted 1:100,000 to bring the result within the calibrated range. The reporting limit has been raised accordingly. Please note that the result for phosphoric acid was determined by calculation from the experimentally determined concentration of its constituents. As there may be other sources of these constituents in the samples, the calculated results should be assumed to represent the maximum possible concentration in the sample.

Volatile organic compounds were analysed by GC-MS headspace. The results for benzene, toluene and xylenes were obtained after serial dilutions. Precision and accuracy may have been adversely affected. All other results for VOC's have been obtained from an undiluted sample.

Cationic detergents are expressed as mg/l as cetyltrimethyl-ammonium bromide (cetrimide).

Anionic detergents are expressed as mg/l as bis(2-ethylhexyl)sodium sulfosuccinate (Manoxol OT)

Density was measured at 1212g/L



Neil Donovan
Technical Manager