

## Client:

XXXX XXXXX

XXXX XXXX

XXXXXXXXXXXX

XXXX XXXXXXXXXXXX

XX00 OXX

## Sample from:

XXXX XXXXX

XXXX XXXX

XXXXXXXXXXXX

XXXX XXXXXXXXXXXX

XX00 OXX

Determinand	Units	value	method
pH		5.4	potentiometrically (1:2.5) BS1377 - 3 section 9
Conductivity	$\mu\text{S cm}^{-1}$	131	1:2.5 soil suspension determined using conductivity meter
Copper	$\text{mg kg}^{-1}$	6.7	ICP - OES on acid digest
Zinc	$\text{mg kg}^{-1}$	25.3	ICP - OES on acid digest
Lead	$\text{mg kg}^{-1}$	21.3	ICP - OES on acid digest
Arsenic	$\text{mg kg}^{-1}$	5.1	ICP - OES on acid digest
Cadmium	$\text{mg kg}^{-1}$	<0.1	ICP - OES on acid digest
Nickel	$\text{mg kg}^{-1}$	<10	ICP - OES on acid digest
Chromium	$\text{mg kg}^{-1}$	13.9	ICP - OES on acid digest
Mercury	$\text{mg kg}^{-1}$	0.05	hydride generation AFS on an acid digest of the sample
Selenium	$\text{mg kg}^{-1}$	0.18	hydride generation AFS on an acid digest of the sample
Hot water soluble Boron	$\text{mg kg}^{-1}$	0.3	extraction by soil boiled with water (1:2.5) then ICP - OES
Water soluble sulphate	$\text{g l}^{-1}$	0.03	extraction at 1:2.5 wt/ v then ICP - OES
Easily liberated sulphide	$\text{mg kg}^{-1}$	2	$\text{H}_2\text{S}$ released by orthophosphoric acid then colourimetrically DPD at 670 nm
Elemental Sulphur	$\text{mg kg}^{-1}$	<20	extracted into solvent then HPLC at 263 nm
Total Phenols index	$\text{mg kg}^{-1}$	<1	Steam distillation then colourimetrically
Total Cyanide	$\text{mg kg}^{-1}$	<1	Steam distillation then automated colourimetrically
Benzene	$\text{mg kg}^{-1}$	<0.1	banded GRO [C5 - C10] methanol extraction then headspace GC - MS
Toluene	$\text{mg kg}^{-1}$	<0.2	banded GRO [C5 - C10] methanol extraction then headspace GC - MS
Ethylbenzene	$\text{mg kg}^{-1}$	<0.1	banded GRO [C5 - C10] methanol extraction then headspace GC - MS
m&p Xylene	$\text{mg kg}^{-1}$	<0.2	banded GRO [C5 - C10] methanol extraction then headspace GC - MS
EPH [C10 - C40]	$\text{mg kg}^{-1}$	<15	petroleum hydrocarbons [C10 - C40] extracted with iso-hexane then GC-FID
Total PAH [EPA - 16]	$\text{mg kg}^{-1}$	<1	extracted into solvent then GC-MS
Napthaline	$\text{mg kg}^{-1}$	<0.05	extracted into solvent then GC-MS
Acenaphylene	$\text{mg kg}^{-1}$	<0.05	extracted into solvent then GC-MS
Acenapthene	$\text{mg kg}^{-1}$	<0.1	extracted into solvent then GC-MS
Fluorene	$\text{mg kg}^{-1}$	<0.05	extracted into solvent then GC-MS
Phenanthrene	$\text{mg kg}^{-1}$	<0.1	extracted into solvent then GC-MS
Anthracene	$\text{mg kg}^{-1}$	<0.1	extracted into solvent then GC-MS
Fluoranthene	$\text{mg kg}^{-1}$	<0.1	extracted into solvent then GC-MS
Pyrene	$\text{mg kg}^{-1}$	<0.1	extracted into solvent then GC-MS
Benz[a]anthracene	$\text{mg kg}^{-1}$	<0.1	extracted into solvent then GC-MS
Chrysene	$\text{mg kg}^{-1}$	<0.1	extracted into solvent then GC-MS
Benzo[b]fluoranthene	$\text{mg kg}^{-1}$	<0.1	extracted into solvent then GC-MS
Benzo[k]fluoranthene	$\text{mg kg}^{-1}$	<0.1	extracted into solvent then GC-MS
Benzo[a]pyrene	$\text{mg kg}^{-1}$	<0.1	extracted into solvent then GC-MS
Indeno[1,2,3-cd]pyrene	$\text{mg kg}^{-1}$	<0.1	extracted into solvent then GC-MS
Dibenz[a,h]anthracene	$\text{mg kg}^{-1}$	<0.1	extracted into solvent then GC-MS
Benzo[g,h,i]perylene	$\text{mg kg}^{-1}$	<0.1	extracted into solvent then GC-MS

Want to leave feedback? [www.bonlab.co.uk](http://www.bonlab.co.uk)Report authorised by:  
Nigel Fahey.  
Laboratory manager

These results refer specifically to the sample submitted for analysis and not the original site as a whole. No part of this report may be reproduced unless in full and with the permission of Baileys of

Norfolk Ltd. Samples were subcontracted to a UKAS accredited laboratory.  
Baileys of Norfolk Ltd. Brick Kiln Road, Hevingham, Norwich, Norfolk. NR 10 5NL.  
T: 01603 754607 F: 01603 754147 e-mail: [lab@baileysofnorfolk.co.uk](mailto:lab@baileysofnorfolk.co.uk)Nigel  
Fahey