Certificate of Analysis

Client: F.A.O CAMERON LEWIS
(G 19) THE WOODHORN GROUP LTD
OVING
CHICHESTER
W SUSSEX
PO20 2BX

Originator: TANGMERE STOCK SOIL

Lab ID: 90803 - 372830
Sample ID: BS 3882 TOPSOIL 20MM
Sample Weight: 1682g

Date Received: 12/02/2018
Date Reported: 16/02/2018

BS 3882 : 2015 SPECIFICATION FOR TOPSOIL
Multipurpose Grade

		Unit	Result		Compliant with range (Y/N) Multi-P	Acid	Calc	Low-F	Low-F Acid	Low-F Calc
Texture:	Clay	% w/w	16							
	Silt	% w/w	17			*See area of permitted soil textural*				
	Sand	% w/w	67			*classes in Fig. 1.*				
	Textural Class		Sandy Loam		Y	Y	Y	Y	Y	Y
Organic Matter:		% w/w	8.7		Y	Y	Y	Y	Y	Y
Coarse	>2 mm	% w/w	1.2		Y	Y	Y	Y	Y	Y
Fragment	>20 mm	% w/w	0.0		Y	Y	Y	Y	Y	Y
Content:	>50 mm	% w/w	0.0		Y	Y	Y	Y	Y	Y
Soil pH:			7.9		Y	N	Y	Y	N	Y
Carbonate:		% w/w	1.3				Y			Y
Available	Nitrogen	% w/w	0.320		Y	Y	Y			
Plant	Phosphorus	mg/l	37.0	(3)*	Y	Y	Y	N	N	N
Nutrients:	Potassium	mg/l	1401.2	(6)*	Y	Y	Y			
	Magnesium	mg/l	239.9	(4)*	Y	Y	Y			
Carbon:Nitrogen Ratio:		:1	15.8		Y	Y	Y	Y	Y	Y
Exchangeable Sodium Percentage:		%	5.8							
Phytotoxic	Total Zinc	mg/kg	57.9		Y	Y	Y	Y	Y	Y
Contaminants:	Total Copper	mg/kg	19.0		Y	Y	Y	Y	Y	Y
	Total Nickel	mg/kg	21.6		Y	Y	Y	Y	Y	Y
Visible	> 2mm	% w/w	0.02		Y	Y	Y	Y	Y	Y
Contaminants:	Plastics	% w/w	0.01		Y	Y	Y	Y	Y	Y
	Number of Sharps		0		Y	Y	Y	Y	Y	Y
Additional	Available Sodium	mg/l	162.9							
Analysis:	Available Calcium	mg/l	1177.8							
	Conductivity	uS/cm	2809		Y					
Compliancy:					**Y**	**N**	**Y**	**N**	**N**	**N**

Results are expressed on a dry matter basis.
* Soil indices from RB209

Released by: *Darren Whitbread* **Date: 16/02/2018**

DECLARATION: I certify that this sample has been analysed by NRM in accordance with BS 3882 Specification for Topsoil (2015).

NRM Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS
Tel: +44 (0) 1344 886338 **Fax:** +44 (0) 1344 890972 **Email:** enquiries@nrm.uk.com **www.**nrm.uk.com

NRM Laboratories is a division of Cawood Scientific Ltd, Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS Registered Number: 05655711

Analytical Report

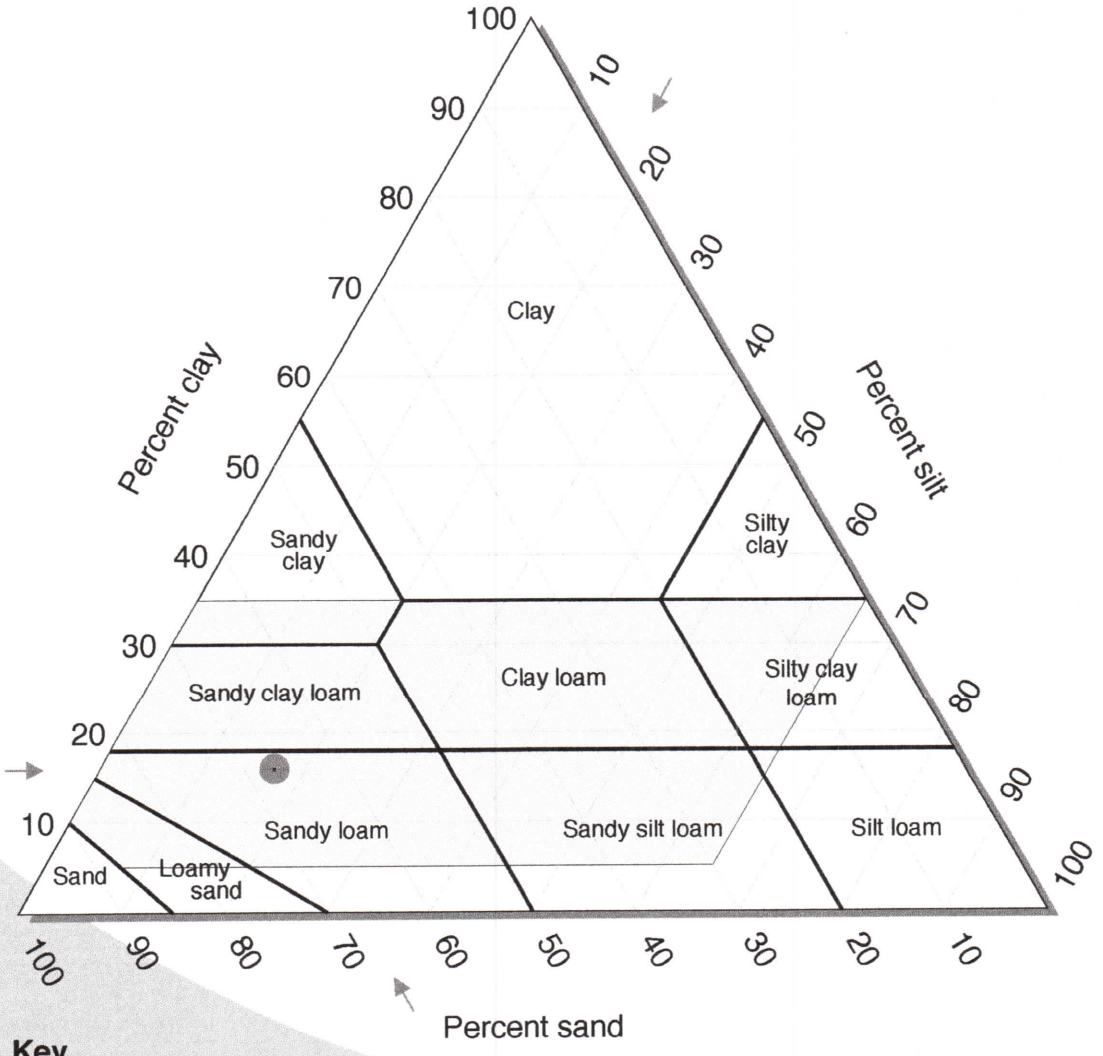
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Fig. 1. Textural Class: Sandy Loam (compliant)



Key

Area within which texture of topsoil is required to fall.

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Tel: (01329) 287777
Fax: (01329) 287755
www.envirochem.co.uk
lab@envirochem.co.uk

Our Ref: 17-08766
Your Ref: PAID WITH CARD

Analysis Report

Client: The Woodhorn Group
Woodhorn Business Centre
Woodhorn Lane
Oving
Chichester
PO20 2BX

Sample Details: 5 soil samples for Soil Analysis

Date report issued: 18 December 2017

Number of pages (including this header): 5

Accreditation

All analytes marked ^{M} have been analysed under the scope of our MCERTS accreditation
All analytes marked ^{U} have been analysed under the scope of our UKAS accreditation
All analytes marked ^{m} have been subcontracted and analysed under the scope of their MCERTS accreditation
All analytes marked ^{u} have been subcontracted and analysed under the scope of their UKAS accreditation
All results labelled with an asterisk (*) are non-conforming due to incorrect sample storage or handling. The result may be invalid.

Signed on behalf of Envirochem by an authorised signatory

Rhea Shears

Occupational Hygienist

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mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME
UKAS TESTING 1227

Client: The Woodhorn Group
Site: Tangmere Composting Site
Sampled By: Client
Envirochem Job No. 17-08766

Date Sampled: 7 December 2017
Date Received: 8 December 2017
Date Completed: 15 December 2017
Date Issued: 15 December 2017

Lab Sample No.	23573	23574	23575	23576	Limits		
Soil Type	Sandy loam	Sandy loam	Sandy loam	Sandy loam			
Sample Date	07/12/2017	07/12/2017	07/12/2017	07/12/2017			
Sample Time							
Sample Location / Details	bs3882 Topsoil 1	bs3882 Topsoil 2	bs3882 Topsoil 3	bs3882 Topsoil 4			
Determination	Units	Method	Detection Limit					Resid.	Allot.	Comm.
Particle size > 2mm	%	6.16	-	10	12	9	11	—	—	—
water content 105C	%	6.01	1.0	22.3	24.6	24.0	24.8	—	—	—
a[illegible]c	mg/kg (dry	6.08	2.0	4.2 M	2.9 M	3.4 M	3.6 M	32+	43+	640+
cadmium	mg/kg (dry	6.08	1.0	1.7 M	1.3 M	1.2 M	1.4 M	10+	1.8+	230+
chromium	mg/kg	6.08	2.0	10.4 M	7.8 M	7.0 M	8.0 M	600+++	600+++	1000+
copper	mg/kg (dry	6.08	1.0	16.4 M	15.2 M	15.6 M	16.0 M	2330++	524++	71700
mercury	mg/kg (dry	6.08	1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.0+	26+	26+
nickel	mg/kg (dry	6.08	14.0	< 14.0 M	< 14.0 M	< 14.0 M	< 14.0 M	130+	230+	1800+
lead	mg/kg (dry	6.08	5.0	22.6 M	42.9 M	24.6 M	23.8 M	500+++	500+++	2000+
antimony	mg/kg (dry	6.08	10.0	< 10.0	< 10.0	< 10.0	< 10.0	—	—	—
selenium	mg/kg (dry	6.08	3.0	< 3.0	< 3.0	< 3.0	< 3.0	350+	120+	13000+
zinc	mg/kg (dry	6.08	40.0	49.7 M	46.9 M	48.3 M	47.9 M	3750++	618++	66500
total TPH (C10 - C40)	mg/kg	6.04	50.0	230	225	324	256	—	—	—
TPH Aliphatic (C8-C10)	mg/kg	6.04	10.0	< 10.0	< 10.0	< 10.0	< 10.0	110++	1700++	12000
TPH Aliphatic (C10-C12)	mg/kg	6.04	10.0	< 10.0	< 10.0	< 10.0	< 10.0	540++	7300++	49000
TPH Aliphatic (C12-C16)	mg/kg	6.04	10.0	< 10.0	< 10.0	< 10.0	< 10.0	3000++	13000	91000
TPH Aliphatic (C16-C21)	mg/kg	6.04	10.0	11.8	11.5	16.6	13.1	76000	27000	18000
TPH Aliphatic (C21-C40)	mg/kg	6.04	10.0	65.5	63.9	92.0	72.9	76000	27000	18000
TPH Aromatic (C8-C10)	mg/kg	6.04	10.0	< 10.0	< 10.0	< 10.0	< 10.0	151++	51++	18000
TPH Aromatic (C10-C12)	mg/kg	6.04	10.0	< 10.0	< 10.0	< 10.0	< 10.0	346++	74++	34500
TPH Aromatic (C12-C16)	mg/kg	6.04	10.0	< 10.0	< 10.0	< 10.0	< 10.0	593++	130++	37800
TPH Aromatic (C16-C21)	mg/kg	6.04	10.0	13.4	13.1	18.8	17.9	770++	260++	28000
TPH Aromatic (C21-C40)	mg/kg	6.04	10.0	130	127	183	145	1230++	1600++	28000
total PAHs	mg/kg	6.05	10.0	< 10.0	< 10.0	< 10.0	< 10.0	—	—	—
PAH Acenaphthene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	1000++	200++	10000
PAH Acenaphthylene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	850++	160++	10000
PAH Anthracene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	9200++	2200++	54000
PAH Benzo(a)pyrene	mg/kg	6.05	0.1	< 0.1	< 0.1	< 0.1	< 0.1	1++	2.1++	14++
PAH Benz(a)anthracene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.9++	10++	97++
PAH Benzo(b)fluoranthene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	7++	13++	100++
PAH Benzo(k)fluoranthene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	10++	23++	140++

Limits labelled '+' are soil guideline values from Defra 2002 (information taken from: Using Soil Guideline Values: Science Report: SC050021/SGV introduction & www.environment-agency.gov.uk/clea)
Limits labelled '++' are LQM Soil Guideline Values
Limits labelled '+++' are ICRCL 59/83 trigger concentrations. These do not differentiate between domestic and allotments

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UKAS TESTING
1227

Client: The Woodhorn Group
Site: Tangmere Composting Site
Sampled By: Client
Envirochem Job No. 17-08766

Date Sampled: 7 December 2017
Date Received: 8 December 2017
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	Lab Sample No.	23573	23574	23575	23576			
	Soil Type	Sandy loam	Sandy loam	Sandy loam	Sandy loam			
	Sample Date	07/12/2017	07/12/2017	07/12/2017	07/12/2017			
	Sample Time							
	Sample Location / Details	bs3882 Topsoil 1	bs3882 Topsoil 2	bs3882 Topsoil 3	bs3882 Topsoil 4			
						Limits		
Determination	Units	Method	Detection Limit				Resid.	Allot.	Comm.
PAH Chrysene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	9.3++	12++	140++
PAH Dibenzo(a,h)anthracene	mg/kg	6.05	0.9	< 0.9	< 0.9	< 0.9	< 0.9	0.9++	2.3++	13++
PAH Fluorene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	780++	160++	71000
PAH Fluoranthene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	670++	290++	23000
PAH Indeno(1,2,3-c,d)pyrene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.2++	7.1++	63++
PAH Napthalene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.7++	23++	1100++
PAH Phenanthrene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	380++	90++	23000
PAH Pyrene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	1600++	620++	54000
PAH Benzo(g,h,i)perylene	mg/kg	6.05	1.0	< 1.0	< 1.0	< 1.0	< 1.0	47++	160++	660++
MTBE	mg/kg	6.11	1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	--
Benzene	mg/kg	6.11	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.33	0.07	95
Toluene	mg/kg	6.11	1.0	< 1.0	< 1.0	< 1.0	< 1.0	610	120	4400
Ethyl Benzene	mg/kg	6.11	1.0	< 1.0	< 1.0	< 1.0	< 1.0	350	90	2800
Xylene	mg/kg	6.11	1.0	< 1.0	< 1.0	< 1.0	< 1.0	250	180	3500

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Sampled By: Client
Envirochem Job No. 17-08766

Date Sampled: 7 December 2017
Date Received: 8 December 2017
Date Completed: 15 December 2017
Date Issued: 15 December 2017

			Lab Sample No.	23577						
			Soil Type	Sandy loam						
			Sample Date	07/12/2017						
			Sample Time							
			Sample Location / Details	bs3882 Topsoil 5						
								Limits		
Determination	Units	Method	Detection Limit					Resid.	Allot.	Comm.
Particle size > 2mm	%	6.16	-	13				—	—	—
water content 105C	%	6.01	1	23.0				—	—	—
arsenic	mg/kg	6.08	2	3.9 M				32+	43+	640+
cadmium	mg/kg	6.08	1	1.4 M				10+	1.8+	230+
chromium	mg/kg	6.08	2	9.3 M				600+++	600+++	1000+
copper	mg/kg	6.08	1	17.9 M				2330++	524++	71700
mercury	mg/kg	6.08	1.0	< 1.00				1.0+	26+	26+
nickel	mg/kg	6.08	14	< 14.0 M				130+	230+	1800+
lead	mg/kg	6.08	5	22.9 M				500+++	500+++	2000+
antimony	mg/kg	6.08	10	< 10.0				—	—	—
selenium	mg/kg	6.08	3	< 3.0				350+	120+	13000+
zinc	mg/kg	6.08	40	47.2 M				3750++	618++	66500
total TPH (C10 - C40)	mg/kg	6.04	50	230				—	—	—
TPH Aliphatic (C8-C10)	mg/kg	6.04	10	< 10.0				110++	1700++	12000
TPH Aliphatic (C10-C12)	mg/kg	6.04	10	< 10.0				540++	7300++	49000
TPH Aliphatic (C12-C16)	mg/kg	6.04	10	< 10.0				3000++	13000	91000
TPH Aliphatic (C16-C21)	mg/kg	6.04	10	18.8				76000	27000	18000
TPH Aliphatic (C21-C40)	mg/kg	6.04	10	105				76000	27000	18000
TPH Aromatic (C8-C10)	mg/kg	6.04	10	< 10.0				151++	51++	18000
TPH Aromatic (C10-C12)	mg/kg	6.04	10	< 10.0				346++	74++	34500
TPH Aromatic (C12-C16)	mg/kg	6.04	10	< 10.0				593++	130++	37800
TPH Aromatic (C16-C21)	mg/kg	6.04	10	21.4				770++	260++	28000
TPH Aromatic (C21-C40)	mg/kg	6.04	10	208				1230++	1600++	28000
total PAHs	mg/kg	6.05	10	< 10.0				—	—	—
PAH Acenaphthene	mg/kg	6.05	1	< 1.0				1000++	200++	10000
PAH Acenaphthylene	mg/kg	6.05	1	< 1.0				850++	160++	10000
PAH Anthracene	mg/kg	6.05	1	< 1.0				9200++	2200++	54000
PAH Benzo(a)pyrene	mg/kg	6.05	0	< 0.1				1++	2.1++	14++
PAH Benz(a)anthracene	mg/kg	6.05	1	< 1.0				5.9++	10++	97++
PAH Benzo(b)fluoranthene	mg/kg	6.05	1	< 1.0				7++	13++	100++

Limits labelled '+' are soil guideline values from Defra 2002 (information taken from: Using Soil Guideline Values: Science Report: SC050021/SGV introduction & www.environment-agency.gov.uk/clea)
Limits labelled '++' are LQM Soil Guideline Values
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Envirochem Job No. 17-08766

Date Sampled: 7 December 2017
Date Received: 8 December 2017
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								Limits		
Lab Sample No.				23577						
Soil Type				Sandy loam						
Sample Date				07/12/2017						
Sample Time										
Sample Location / Details				bs3882 Topsoil 5						
Determination	Units	Method	Detection Limit					Resid.	Allot.	Comm.
PAH Benzo(k)fluoranthene	mg/kg	6.05	1	< 1.0				10++	23++	140++
PAH Chrysene	mg/kg	6.05	1	< 1.0				9.3++	12++	140++
PAH Dibenzo(a,h)anthracene	mg/kg	6.05	1	< 0.9				0.9++	2.3++	13++
PAH Fluorene	mg/kg	6.05	1	< 1.0				780++	160++	71000
PAH Fluoranthene	mg/kg	6.05	1	< 1.0				670++	290++	23000
PAH Indeno(1,2,3-c,d)pyrene	mg/kg	6.05	1	< 1.0				4.2++	7.1++	63++
PAH Napthalene	mg/kg	6.05	1	< 1.0				8.7++	23++	1100++
PAH Phenanthrene	mg/kg	6.05	1	< 1.0				380++	90++	23000
PAH Pyrene	mg/kg	6.05	1	< 1.0				1600++	620++	54000
PAH Benzo(g,h,i)perylene	mg/kg	6.05	1	< 1.0				47++	160++	660++
MTBE	mg/kg	6.11	1	< 1.0				—	—	—
Benzene	mg/kg	6.11	0	< 0.1				0.33	0.07	95
Toluene	mg/kg	6.11	1	< 1.0				610	120	4400
Ethyl Benzene	mg/kg	6.11	1	< 1.0				350	90	2800
Xylene	mg/kg	6.11	1	< 1.0				250	180	3500

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THE WOODHORN GROUP

Date: 16/04/2018

Page: 1

Goods Receipt

Bill/Sold To	Job Site/Ship To:
CASH WHOLESALE 7A ORMONDE WAY SHOREHAM BN43 5YB	CASH WHOLESALE GREENSPACE HOMES 7A ORMONDE WAY SHOREHAM BN43 5YB

Quote No.	Job No.	Salesperson	Manager	Ref
24549	40502	-No Sales Employee-		07753525259

DESCRIPTION	QTY / UNIT	UNIT PRICE	EXTENDED PRICE
18/04/2018			
Container			
8 Wheel Tipper	1.00 /	135.34	135.34
Product			
Topsoil BS3882 (20MM)	18.00 / Tonnes	22.00	396.00

Vat : **106.27**

Est. Amount: **637.61**

Company Representative (signature)

Company Registration Number: 3629015

Company VAT Number: 816160744