

12th September 2018

CALA Homes (South Home Counties) Limited
Tilford House,
Farnham Business Park,
Weydon Lane,
Farnham,
Surrey, GU9 8QT

FAO: Mr Gary Biggs

Dear Gary,

RE: Former West End Nursery, Angmering - Validation Plots 85-92 and Plots 103, 104 and 117

RSK Environment Limited (RSK) was commissioned by CALA Homes (South Home Counties) Limited (CALA) to carry out garden validation testing of Plots 85 – 92 and plots 103, 104 and 117 of the former West End Nursery site off Roundstone Lane, Angmering, BN16 4AX. The plots are located within development Phase 1B. The phase 1B development boundary is presented on **Figure 1**. The site was previously occupied by a commercial nursery.

Several phases of site investigation, risk assessments, a remedial strategy and post remediation verification reports (Phase 1A and Phase 1B) have been completed for the former West End Nursery site by RSK. The following reports contain information relevant to development Phase 1B:

- RSK, 2015a. Geo-environmental Site Investigation, report ref: 27621 R01 (02), May 2016;
- RSK, 2015b. Additional Geo-environmental Site Investigation and Remediation, report ref: 27621 R02 (00), June 2015;
- RSK, 2016a. Remedial Strategy, report ref: 27621 R03 (02), August 2017;
- RSK, 2016b. Supplementary Geo-environmental Site Assessment, report ref: 27621 R04 (01), June 2016;
- RSK 2016c. Tank Validation, report ref: 27621 L01/ad, August 2016;
- RSK 2017a. Phase 1B asbestos delineation works (Plots 65 to 121) and historic boiler house validation works, report ref: 27621 L08, July 2017;
- RSK 2017c. Downgrading of ground gas regime, report ref: 27621-L19-dbj, November 2017; and,
- RSK, 2018. Post-remediation validation report – Phase 1B, report ref: 27621 R09 (00), April 2018.

A number of impacted areas were found previously across the site including elevated concentrations of pesticides (one location), hydrocarbons, asbestos and metals.

A first phase of remediation was undertaken at the site by Keltbray in accordance with recommendations contained within the approved remedial strategy for the site (RSK report ref: 27621 R03 (02), August



INVESTORS IN PEOPLE

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Registered in Scotland No. 116630
www.rsk.co.uk

2017). The remedial works undertaken by Keltbray were documented in the Keltbray Completion Report, ref: 6033.CR.LH.08072016V3, dated August 2016.

Throughout the Keltbray remedial works RSK attended site on an ad hoc basis to verify the works carried out. Validation works completed by RSK are detailed within the post-remediation validation report produced for Phase 1B, report ref: 27621 R09 (00), dated April 2018.

It is noted since development works commenced at the site, that RSK have collected a significant amount of additional data pertaining to ground gas risk assessment. A letter report issued on 20th November 2017 by RSK, reference 27621-L19-dbj was compiled reviewing this data. In summary, the report recommended that following on from an extended period of sub floor void monitoring that the gas regime at the site could be downgraded from Amber 1/CS2 to Green/CS1. The downgrading of the gas regime means that no gas protection measures or verification by RSK are now required. This conclusion was approved by Arun District Council by email on 21st November 2017 and by the NHBC by email on 4th December 2017. Copies of these emails can be made available on request.

Based upon the remedial works carried out to date within Phase 1B, it is considered that the area is suitable for the proposed residential end use subject to the garden/soft landscaping verification works being completed. Validation of the topsoil and subsoil is ongoing, with RSK inspecting the completed gardens for presence of geo-membrane where applicable and cover layer thickness of subsoil and topsoil.

2. CAPPING LAYER REMEDIAL REQUIREMENTS

On the basis of the impacts previously identified at the site, it was recommended that a capping layer be incorporated into private garden areas to minimise risk to human health from any impacted soils. The specification for the capping layer, agreed with Arun District Council is as follows:

The capping layer in areas of identified impact (remaining bund materials, pesticide hotspot and made ground containing asbestos) and in the central and south eastern landscaped areas should be 600 mm thick to include a minimum of 150 mm clean imported topsoil and 450 mm clean imported/site-won subsoil with a geo- marker membrane at the base, which will act as a physical break layer. In lower risk areas (i.e. no impacts identified during the previous phases of works) the capping layer should be 450 mm to include a minimum of 150 mm clean imported topsoil and 300 mm clean imported/site-won subsoil.

Validation of the capping layer should consist of the following:

- In private gardens, testing should be carried out on the basis of one sample for every 50 m³ area of garden; and
- In communal soft landscaping areas, testing should be carried out on the basis of one sample for every 250 m³ of soft landscaping.

Based upon the recommendations above, this letter report represents a verification of the appropriate implementation of capping layer construction at relevant plots within the completed development.

The comments given in this report and the opinions expressed are based on the ground conditions encountered during the site work, on the results of laboratory analysis on soil samples and on available information. All works undertaken at the site are in accordance with the RSK Service Constraints presented in **Appendix A**.

3. SITE INSPECTION

RSK attended site on 04th September 2018 to inspect and validate the capping layer (topsoil/subsoil) within the front and rear garden areas of Plot 85 - 92, 103, 104 and 117. Repeated visits were required due to the staggered installation of the capping layer across the gardens. Photographs from the site inspection works are presented in **Appendix B**.

One hand excavated inspection pit was completed in the rear garden of Plots 85 – 92, 103, 104 and 117. In accordance with the remedial strategy specification, validation pits were hand-excavated to a depth of at least 450 mm in Plots 85 – 92, 103 and 117, and to a depth of at least 600 mm below the existing ground level in Plot 104. Pits were machine excavated to allow for inspection and sampling of soils. The inspection pit logs are presented in **Appendix C**.

The topsoil generally comprised dark brown slightly gravelly silty fine to medium SAND with frequent wood chip and organic matter. The topsoil was followed by the subsoil strata which comprised light brown slightly sandy gravelly CLAY, where sand is fine to coarse, and gravel is subangular to subrounded, fine to coarse flint.

The depth of the capping layer within the garden was at least 450 mm across Plots 85 - 92, 103 and 117, and at least 600 mm underlain by a geotextile marker layer across Plot 104. It is considered that this demonstrates compliance of the specified capping layer remedial measures.

A plan showing the capping layer requirements for Phase 1B is presented as **Figure 1**. The validation certificates for the imported topsoil are presented in **Appendix D**.

4. VERIFICATION TESTING

Soil samples were submitted for chemical laboratory testing comprising a standard suite of potential contaminants. Soil samples were submitted for the following suite of analysis:

- Selected heavy/semi/non-metals (including chromium VI);
- pH and sulphate;
- Speciated Total Petroleum Hydrocarbons (TPH)-CWG banding with Benzene, Toluene, Ethyl Benzene and Xylene (BTEX) and Methyl Tert Butyl Ether (MTBE) determination;
- Speciated Polycyclic Aromatic Hydrocarbons (PAH); and
- Asbestos screen.

A summary of the capping layer volumes is presented in **Table 1**.

Table 1: Summary of capping layer volumes

Plot Number	Combined topsoil/subsoil volume - front and rear (m ³)	Samples Tested
85 - 92	161.54	4
103	50.35	2
104	108.43	3
117	58.31	2

A total of 11 No. validation samples were collected from Plot 85 – 92, 103, 104 to 117 in accordance with the remedial requirements for Phase 1B. Based upon the testing strategy of 1 sample per 50 m³ it is considered that an appropriate number of samples have been obtained. The chemical results are presented in **Appendix E** and indicate that concentrations of analytes are below the RSK GAC presented in **Appendix F**.

5. CONCLUSIONS

The results of the site inspection and laboratory testing have demonstrated that the topsoil and subsoil are chemically suitable for the proposed residential end-use and the capping layer has been completed to the required specification, comprising at least 450 mm across Plots 85 - 92, 103 and 117, and at least 600 mm underlain by a geotextile marker layer across Plot 104. It is therefore considered that no further verification of the private garden areas of these plots is required.

It is considered that the inspection data for the garden areas are sufficient and that this letter report may be submitted to the NHBC, so that the appropriate land quality condition can be discharged based on the information provided.

We trust that the information discussed above is acceptable and recommend this report be submitted to the NHBC and Local Authority accordingly. Should you require RSK to submit this information on your behalf, please do not hesitate to contact us.

Yours sincerely,

For RSK Environment Limited

Craig Lewis

Senior Geo-environmental Consultant

Kirsten Fairall

Principal Geo-environmental Consultant

Enc.

Figure 1 Phase 1B – Capping layer requirements plan

Appendix A Service Constraints

Appendix B Photographic Log

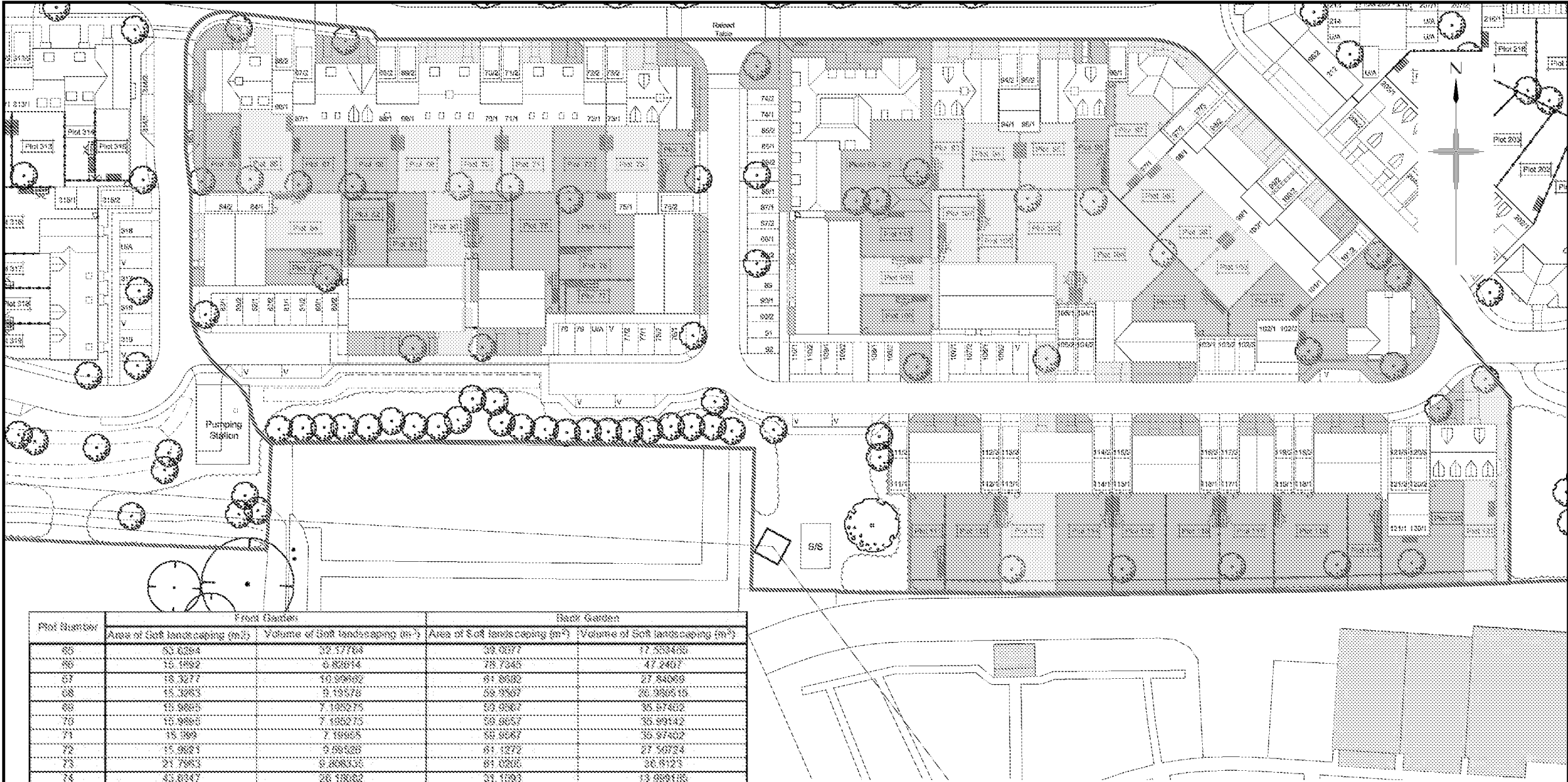
Appendix C Hand pit logs

Appendix D Topsoil Validation Certificates

Appendix E Laboratory Certificates

Appendix F RSK Generic Assessment Criteria

FIGURES



Plot Number	Front Garden		Back Garden	
	Area of Soft landscaping (m ²)	Volume of Soft landscaping (m ³)	Area of Soft landscaping (m ²)	Volume of Soft landscaping (m ³)
65	53.6384	52.57768	35.0077	17.50385
66	15.1862	0.86614	78.7343	47.2407
67	18.3277	10.99692	61.8582	27.84069
68	15.3283	9.19578	55.9567	26.980515
69	15.9895	7.189275	15.8587	35.57428
70	15.9895	7.189275	15.8587	35.59143
71	15.1869	7.18958	55.9587	35.57402
72	15.9821	9.18528	61.1272	27.54974
73	21.75813	9.868336	81.0266	36.8123
74	45.8347	28.19882	31.1883	13.689188
75	10.18	6.108	65.2178	38.79881
76	9.874	5.9244	31.3349	14.108705
77	9.54	5.784	30.3884	13.65273
78	18.9883	11.88298	91.1803	38.59635
79	21.2673	12.78038	57.7304	25.67883
80	24.2806	10.92638	68.0601	40.58886
81	19.8808	11.89088	48.4758	25.914155
82	35.117	32.0702	87.0579	21.176055
83	9.1658	5.3338	40.4135	18.188075
84	8.5181	5.832545	80.0822	48.06153
85-88	159.7644	95.85484	148.4338	85.71821
89	17.4112	7.80104	28.5115	10.78879
90	15.9893	7.189588	67.1228	40.27374
91	18.8171	7.307765	68.1265	33.87513
92	15.9896	8.15188	33.8819	15.158982
93	32.5827	14.886715	61.7082	30.22572
94	18.8177	8.512995	84.3833	38.58358
95	55.1748	8.62886	61.4883	38.86418
100	18.3012	8.23554	62.3803	37.41818
101	N/A	N/A	58.7236	28.875705
102	112.7654	67.39824	85.2513	42.383885
103	28.2805	16.8743	74.1829	33.382385
104	18.4383	7.386423	108.4687	101.184282
105	N/A	N/A	101.2564	60.74184
106	N/A	N/A	44.5081	28.75256
107	N/A	N/A	51.0384	31.82184
108	31.0591	18.61888	50.0574	22.52583
109	4.2884	1.91253	45.0541	27.06048
110	8.6881	3.02788	68.1885	28.848829
111	14.1517	9.48102	68.8988	30.6132
112	14.2157	8.55822	111.2818	50.076405
113	14.2158	8.55812	111.8898	57.61978
114	14.2158	8.55818	111.4678	58.14243
115	15.8198	9.4871	185.5438	74.49882
116	15.8785	9.4871	104.5538	47.58681
117	15.525	8.375	138.7586	48.94182
118	14.8527	8.41882	138.8273	62.582385
119	18.6485	9.68254	58.3583	24.47191
120	88.3854	57.75104	118.5248	53.3888
121	22.2924	10.18458	63.4378	38.0822

NOTES:
450mm capping layer required in all communal soft landscaped areas within Phase 1B

LEGEND

- Phase 1B Boundary
- 600mm Capping Layer Required
- 450mm Capping Layer Required

Rev.	Date	Amendment	Drawn	Chkd.	Appd.



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HP3 9RT
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Web: www.rsk.co.uk

Client
CALA HOMES (SOUTH HOME COUNTIES) LTD

Project Title
FORMER WEST END NURSERY, ANGMERING

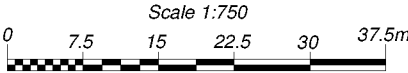
Drawing Title
PHASE 1B - CAPPING LAYER REQUIREMENTS PLAN

Drawn	Date	Checked	Date	Approved	Date
ASC	05.06.18	EH	05.06.18	CML	05.06.18

Scale	Orig Size	Dimensions
1:750	A3	m

Project No.	Drawing File
27621	27621 Figure 1

Drawing No.	Rev.
FIGURE 1	P1





APPENDIX A

SERVICE CONSTRAINTS

1. This report and the site investigation carried out in connection with the report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) for CALA Homes (South Home Counties) (the "client") in accordance with the terms of a contract between RSK and the "client". The Services were performed by RSK with the skill and care ordinarily exercised by a reasonable environmental consultant at the time the Services were performed. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the client.
2. Other than that expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services.
3. Unless otherwise agreed in writing the Services were performed by RSK exclusively for the purposes of the client. RSK is not aware of any interest of or reliance by any party other than the client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent or condone any party other than the client relying upon the Services. Should this report or any part of this report, or otherwise details of the Services or any part of the Services be made known to any such party, and such party relies thereon that party does so wholly at its own and sole risk and RSK disclaims any liability to such parties. **Any such party would be well advised to seek independent advice from a competent environmental consultant and/or lawyer.**
4. It is RSK's understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the report is used, or the proposed use of the site change, this report may no longer be valid and any further use of or reliance upon the report in those circumstances by the client without RSK's review and advice shall be at the client's sole and own risk. Should RSK be requested to review the report after the date of this report, RSK shall be entitled to additional payment at the then existing rates or such other terms as agreed between RSK and the client.
5. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the report in the future shall be at the client's own and sole risk. Should RSK be requested to review the report in the future, RSK shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between RSK and the client.
6. The observations and conclusions described in this report are based solely upon the Services which were provided pursuant to the agreement between the client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out or required by the contract between the client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, RSK did not seek to evaluate the presence on or off the site of asbestos, electromagnetic fields, lead paint, heavy metals, radon gas or other radioactive or hazardous materials.
7. The Services are based upon RSK's observations of existing physical conditions at the Site gained from a walk-over survey of the site together with RSK's interpretation of information including documentation, obtained from third parties and from the client on the history and usage of the site. The Services are also based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely. The Services clearly are limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the walk-over survey. Further RSK was not authorised and did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services. RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK and including the doing of any independent investigation of the information provided to RSK save as otherwise provided in the terms of the contract between the client and RSK.
8. The intrusive environmental site investigation aspects of the Services is a limited sampling of the site at pre-determined borehole and soil vapour locations based on the operational configuration of the site. The conclusions given in this report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the soil and groundwater conditions, together with the position of any current structures and underground facilities and natural and other activities on site. In addition chemical analysis was carried out for a limited number of parameters [as stipulated in the contract between the client and RSK] [based on an understanding of the available operational and historical information.] and it should not be inferred that other chemical species are not present.
9. Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan, but is (are) used to present the general relative locations of features on, and surrounding, the site. Features (boreholes, trial pits etc) annotated on site plans are not drawn to scale but are centred over the approximate location. Such features should not be used for setting out and should be considered indicative only.



APPENDIX B PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Site Location: Land at West End Nursery, Angmering

Photo No.
1

Date:
04/09/2018

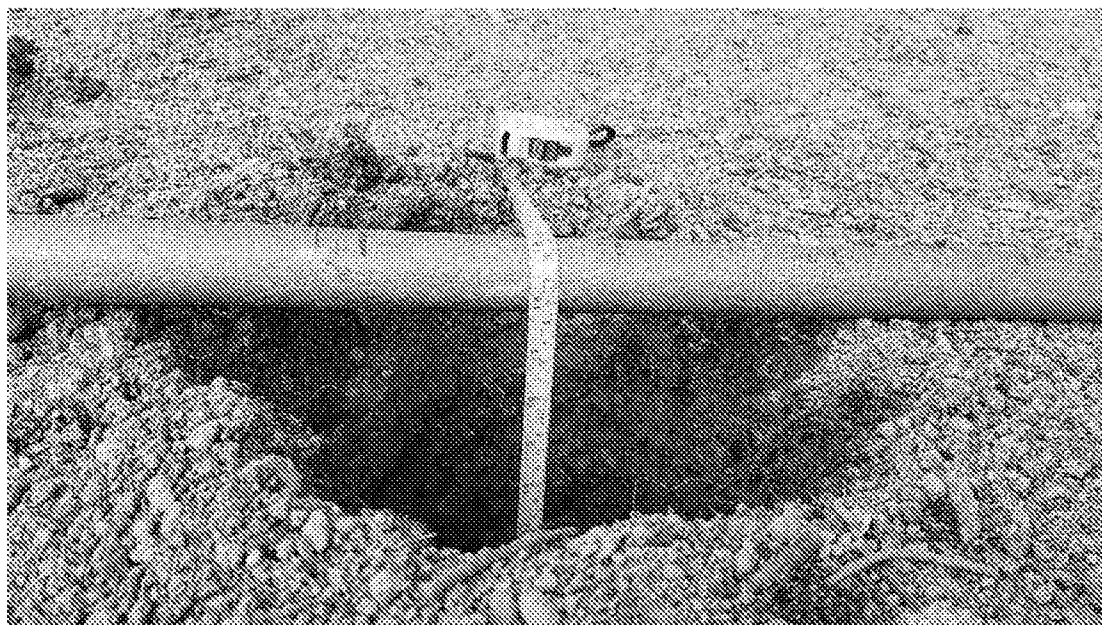
General view looking east across rear gardens of plots 85 to 92.



Photo No.
2

Date:
04/09/2018

View of Plot 85 - 92 rear garden clean capping, observed to be greater than 450 mm thick.



PHOTOGRAPHIC LOG

Site Location: Land at West End Nursery, Angmering

Photo No.
3

Date:
04/09/2018

View of hand pit within Plot 85 - 92 rear garden clean capping, observed to be greater than 450 mm thick.



Photo No.
4

Date:
04/09/2018

General view across plots 3 and 4 looking south east.



PHOTOGRAPHIC LOG

Site Location: Land at West End Nursery, Angmering

Photo No.
5

Date:
04/09/2018

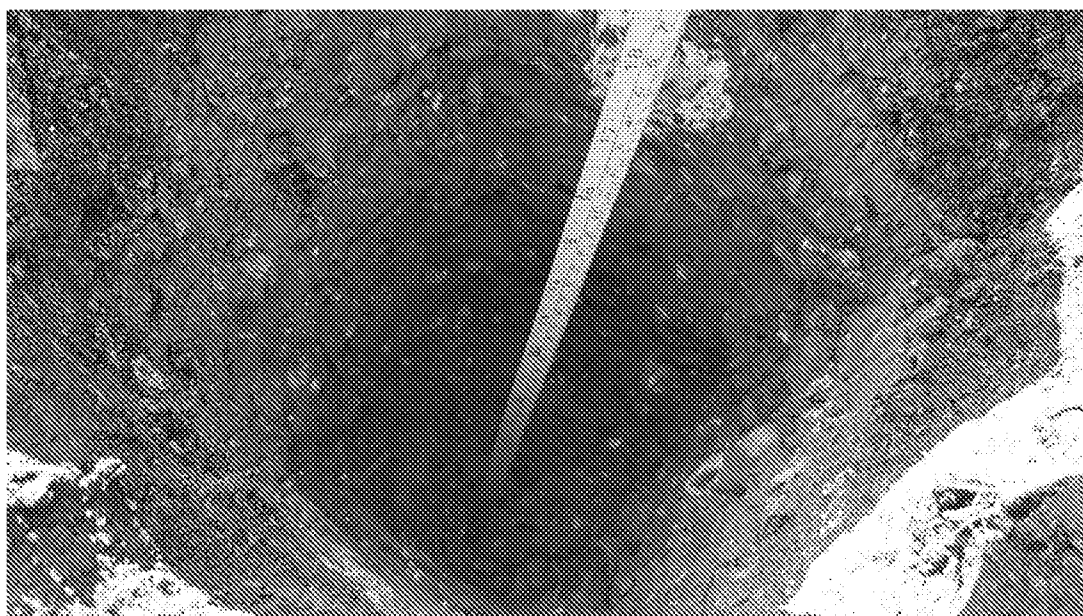
Overview of validation pit within Plot 4.



Photo No.
6

Date:
04/09/2018

Plot 104 rear garden clean capping observed to be greater than 600 mm thick. Orange marker membrane encountered at base.



PHOTOGRAPHIC LOG

Site Location: Land at West End Nursery, Angmering

Photo No. 7	
Date: 14/08/2018	
General view looking south across Plot 103 rear garden. Capping layer observed >450 mm with geomembrane encountered at base	

Photo No. 8	
Date: 14/08/2018	
View of hand pit within Plot 103 rear garden clean capping, observed to be greater than 450 mm thick.	

PHOTOGRAPHIC LOG

Site Location: Land at West End Nursery, Angmering

Photo No.
9

Date:
06/09/2018

General view
of Plots 103
and 104 front
gardens



Photo No.
10

Date:
06/09/2018

View of hand
pit in Plot
103 front
garden
showing
capping layer
450 mm with
geo marker
membrane at
the base



PHOTOGRAPHIC LOG

Site Location: Land at West End Nursery, Angmering

Photo No.
11

Date:
11/09/2018

Plot 104
general view
across front
garden



Photo No.
12

Date:
11/09/2018

View of Plot
104 showing
capping layer
>600 mm
with geo
marker
membrane at
the base



PHOTOGRAPHIC LOG	
Site Location: Land at West End Nursery, Angmering	
Photo No. 13	
Date: 06/09/2018	
Plot 117 general view across front garden	
Photo No. 14	
Date: 06/09/2018	
View of hand pit within front garden of Plot 117, showing capping layer of 450 mm	

PHOTOGRAPHIC LOG

Site Location: Land at West End Nursery, Angmering

Photo No.
15

Date:
07/08/2018

View across
rear garden
of Plots 119
(foreground)
to Plot 111



Photo No.
16

Date:
07/08/2018

View of hand
pit within the
rear garden
of Plot 117





APPENDIX C HAND PIT LOGS



Contract: Land at West End Nursery, Angmering		Client: CALA Homes (South Home Counties) Ltd		Position: HDP85 - 92F
Contract Ref: 27621	Date: 04.09.18	Ground Level: ---	Co-ordinates: ---	Sheet: 1 of 1

General Remarks 1. Hand pit remained stable 2. No groundwater encountered 3. Backfilled with arisings				
All dimensions in metres			Scale: 1:25	
Method Used: Hand excavation	Plant Used: Hand tools	Logged By: CLewis	Checked By:	



Contract: Land at West End Nursery, Angmering		Client: CALA Homes (South Home Counties) Ltd		Position: HDP103F
Contract Ref: 27621	Date: 04.09.18	Ground Level: ---	Co-ordinates: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						TOPSOIL: Dark brown slightly gravelly silty SAND with frequent organic matter. Sand is fine to medium. Gravel is subangular to subrounded, fine to medium flint. SUBSOIL: Orangish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse flint. Hand pit terminated at required depth of 0.45 m.	0.20 0.45	

1. Hand pit remained stable
2. No groundwater encountered
3. Backfilled with arisings

All dimensions in metres

Scale: 1:25

Method

Plant
Used:

Hand tools

Logged
By:

CLewis

Checked By:





FINAL

HAND PIT LOG

Contract: Land at West End Nursery, Angmering		Client: CALA Homes (South Home Counties) Ltd		Position: HDP104F
Contract Ref: 27621	Date: 04.09.18	Ground Level: ---	Co-ordinates: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						TOPSOIL: Dark brown slightly gravelly silty SAND with frequent organic matter. Sand is fine to medium. Gravel is subangular to subrounded, fine to medium flint.	0.20	
						SUBSOIL: Orangish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse flint.	(0.40)	
						Hand pit terminated at geomarker layer and required depth of 0.60 m.	0.60	

General Remarks

1. Hand pit remained stable
2. No groundwater encountered
3. Geomarker membrane encountered at 0.60 m
4. Backfilled with arisings

All dimensions in metres

Scale: **1:25**

Method Used: Hand excavation	Plant Used: Hand tools	Logged By: CLewis	Checked By:	
--	----------------------------------	-----------------------------	----------------	--





Contract: Land at West End Nursery, Angmering		Client: CALA Homes (South Home Counties) Ltd		Position: HDP117F
Contract Ref: 27621	Date: 04.09.18	Ground Level: ---	Co-ordinates: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						TOPSOIL: Dark brown slightly gravelly silty SAND with frequent organic matter. Sand is fine to medium. Gravel is subangular to subrounded, fine to medium flint. SUBSOIL: Orangish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse flint. Hand pit terminated at required depth of 0.45 m.	0.20 0.45	

1. Hand pit remained stable
2. No groundwater encountered
3. Backfilled with arisings

All dimensions in metres

Scale: 1:25

Method

Plant
Used:

Hand tools

Logged
By:

CLewis

Checked By:





APPENDIX D
TOPSOIL VALIDATION CERTIFICATES

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DDX22740

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Longmire Composting Facility

City Place Industrial Estate

Longmire

West Sussex

PO20 3PP

Company Reg No 3629015

VAT No GB16160744

Vehicle Licence No. CBR0162143

Time in 09:55

Date in 01/06/2018

Time Out 10:05

Date Out 01/06/2018

Vehicle E11TJT

Carrier TJ Transport Ltd

License No. Blaze Construction Ltd

Client CRESSWELL PARK,

Address ROUNDSTONE LANE,

Parcel

Zone

Product Topsoil BS3882 (ZOMM)

Unit Code

Net Weight 12.940.00 Kg NONE

Gross Weight 31.520.00 Kg @+

Net Weight 16.880.00 Kg

Job Site/Ship To:

Blaze Construction Ltd

CALA HOMES SITE

CRESSWELL PARK

ROUNDSTONE LANE

ANGMERING

Job No.

41474

Salesperson

-No Sales Employee-

Manager

Ref

609/15042

QTY / UNIT

UNIT PRICE

EXTENDED PRICE

1.00 /

19.00 / Tonnes

By signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

Signature

THE WOODHORN GROUP

Date: 24/05/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DU022758

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Warrington Compositing Facility

100, Trade Industrial Estate

Warrington

West Cheshire

W10 0 0 0

Company Reg No. 0829015

VAT Reg No. 210 160 744

Vehicle Licence No. 10001100145

Job Site/Ship To:

Blaze Construction Ltd

CALA HOMES SITE

CRESSWELL PARK

ROUNDSTONE LANE

ANGMERING

No.	Salesperson	Manager	Ref
473	-No Sales Employee-		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
------------	------------	----------------

	1.00 /	
	19.00 / Tonnes	

By Signing this document I confirm that I have fulfilled

my duty to apply the waste hierarchy as required by

Regulation 12 of the waste (England and Wales)

WOODHORN GROUP

Date: 24/05/2018

Page: 1

Dispatch Note

NEIGHBRIDGE TICKET

Ticket No: DX622743

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Company's Conveying Facility

Two Fields Industrial Estate

Targowis

West Sussex

PO12 2EP

Company Reg No: 3529015

VAT No: 816 150744

Trade Counter Licence No: 1000162145

Issue in: 10.18

Order in: 06/06/2018

Value out: 10.25

Value out: 06/06/2018

Invoice No: N481

Order: To Transport Ltd

Company Name: Blaze Construction Ltd

Address: CRESSWELL PARK

ROUNDSTONE LANE

Product: Topsoil 80/15/2 (20MM)

Net Weight: 12.540.00 Kg NONE

Gross Weight: 30.900.00 Kg @+

Net Weight: 18.360.00 Kg

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

No.	Salesperson	Manager	Ref
1477	No Sales Employee		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

By Signing this document I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the waste (England and Wales)

E WOODHORN GROUP

Date: 01/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET
Ticket No. DO622877

WOODHORN GROUP Ltd

Tangmere Composting Facility
City Fields Industrial Estate
Tangmere
West Sussex

PO20 2FP
Company Reg No 3629015
VAT No 816160744

Waste Carrier Licence no. GBDU162145

Time In 14:00
Date In 04/06/2018
Time Out 14:10
Date Out 04/06/2018
Vehicle E10TJT
Carrier TJ Transport Ltd
License No
Client Blaze Construction Ltd
Address CRESSWELL PARK,
ROUNDSTONE LANE,

Permit
Zone
Product Topsoil BS3882 (20MM)
EWC Code
1st Weight: 12,380.00 Kg P+
2nd Weight: 30,120.00 Kg @+
Net Weight: 17,740.00 Kg

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

Salesperson	Manager	Ref
-No Sales Employee-		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

WOODHORN GROUP

Date: 01/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO622899

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility

City Fields Industrial Estate

Tangmere

West Sussex

PO20 2FP

Company Reg No 3629015

VAT No.818160744

Waste Carrier Licence no: CBDU162145

Time In 15:38
 Date In 04/06/2018
 Time Out 15:51
 Date Out 04/06/2018
 Vehicle E10TJT
 Carrier TJ Transport Ltd
 License No.
 Client Blaze Construction Ltd
 Address CRESSWELL PARK,
 ROUNDSTONE LANE.

Permit
 Zone
 Product Topsoil BS3882 (20MM)
 EWC Code

1st Weight: 12,480.00 Kg @+
 2nd Weight: 31,060.00 Kg @+
 Net Weight: 18,580.00 Kg

By Signing this document I confirm that I have fulfilled
 my duty to apply the waste hierarchy as required by
 Regulation 12 of the waste (England and Wales)

Job Site/Ship To:

Blaze Construction Ltd
 CALA HOMES SITE
 CRESSWELL PARK
 ROUNDSTONE LANE
 ANGMERING

to.	Salesperson	Manager	Ref
79	-No Sales Employee-		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

IE WOODHORN GROUP

Date: 04/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO623000

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility
City Fields Industrial Estate
Tangmere
West Sussex
PO20 3FP

Company Reg No 3629015
VAT No 816160744

Waste Carrier Licence no. C6DU162145

Time In 15:36
Date In 05/06/2018
Time Out 15:47
Date Out 05/06/2018
Vehicle E11TJT
Carrier TJ Transport Ltd
License No
Client Blaze Construction Ltd
Address CRESSWELL PARK
ROUNDSTONE LANE
Permit
Zone
Product Topsoil BS3882 (20MM)
EWC Code
1st Weight 12,320.00 Kg
2nd Weight 31,500.00 Kg @+
Net Weight 18,920.00 Kg

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

No.	Salesperson	Manager	Ref
1603	-No Sales Employee		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

By Signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

E WOODHORN GROUP

Date: 01/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO622922

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility
City Fields Industrial Estate

Tangmere

West Sussex

PO20 2PP

Company Reg No.3629015

VAT No.816160744

Waste Carrier Licence no: C8DU162145

Time In 08.56
Date In 05/06/2018

Time Out 09.09

Date Out 05/06/2018

Vehicle V80TJT

Carrier T4 Transport Ltd

License No.

Client Blaze Construction Ltd

Address CRESSWELL PARK,

ROUNDSTONE LANE,

Permit

Zone

Product Topsoil BS3882 (20MM)

EWC Code

1st Weight: 12,500.00 Kg @+

2nd Weight: 31,380.00 Kg @+

Net Weight: 18,880.00 Kg

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

b No.	Salesperson	Manager	Ref
1577	-No Sales Employee		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

By Signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

Signature

WEIGHBRIDGE TICKET

Ticket No. DO622936

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility

City Fields Industrial Estate

Tangmere

West Sussex

PO20 2FP

Company Reg No.3629015

VAT No.816160744

Waste Carrier Licence no: CBDU162145

Time In	10:31
Date In	05/06/2018
Time Out	10:39
Date Out	05/06/2018
Vehicle	V80TJT
Carrier	TJ Transport
License No.	
Client	Blaze Construction Ltd
Address	CRESSWELL PARK, ROUNDSTONE LANE,
Permit	
Zone	
Product	Topsoil BS3882 (20MM)
EWC Code	
1st Weight:	12,520.00 Kg P+
2nd Weight:	31,180.00 Kg @+
Net Weight:	18,660.00 Kg

By Signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

Signat

WOODHORN GROUP

Date: 04/06/2018

Page: 1

Dispatch Note

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

Salesperson	Manager	Ref
-No Sales Employee-		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

18.66 / Tonnes

E WOODHORN GROUP

Date: 26/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO624784

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility

City Fields Industrial Estate

Tangmere

West Sussex

PO20 2FP

Company Reg No 3629015

VAT No.816160744

Waste Carrier Licence no: CBDU162145

Time In 08:18
 Date In 27/06/2018
 Time Out 08:27
 Date Out 27/06/2018
 Vehicle S28TJT
 Carrier TJ Transport

License No.
 Client Blaze Construction Ltd
 Address CRESSWELL PARK,
 ROUNDSTONE LANE,

Permit
 Zone
 Product Topsoil BS3882 (ZOMM)
 EWC Code

1st Weight 12,160.00 Kg NONE
 2nd Weight 31,180.00 Kg NONE
 Net Weight 19,020.00 Kg

By Signing this document I confirm that I have fulfilled
 my duty to apply the waste hierarchy as required by
 Regulation 12 of the waste (England and Wales)

Job Site/Ship To:

Blaze Construction Ltd
 CALA HOMES SITE
 CRESSWELL PARK
 ROUNDSTONE LANE
 ANGMERING

No.	Salesperson	Manager	Ref
71	-No Sales Employee		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO623031

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility

City Fields Industrial Estate

Tangmere

West Sussex

PO20 2FP

Company Reg No 3629015

VAT No 816160744

Waste Carrier Licence no: CBDU182146

Time In 11:22
 Date In 06/06/2018
 Time Out 11:35
 Date Out 06/06/2018
 Vehicle E16TJT
 Carrier TJ Transport Ltd
 License No.
 Client Blaze Construction Ltd
 Address CRESSWELL PARK,
 ROUNDSTONE LANE,
 Permit
 Zone
 Product Topsoil BS3882 (20MM)
 EWC Code
 1st Weight: 12,280.00 Kg P+
 2nd Weight: 30,600.00 Kg NONE
 Net Weight: 18,320.00 Kg

Job Site/Ship To:

Blaze Construction Ltd
 CALA HOMES SITE
 CRESSWELL PARK
 ROUNDSTONE LANE
 ANGMERING

Job No.	Salesperson	Manager	Ref
41601	-No Sales Employee-		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
1.00 /		
19.00 / Tonnes		

By Signing this document I confirm that I have fulfilled
 my duty to apply the waste hierarchy as required by
 Regulation 12 of the waste (England and Wales)

WEIGHBRIDGE TICKET
Ticket No. DO623051

THE WOODHORN GROUP

Date: 04/06/2018

Page: 1

WOODHORN GROUP Ltd

Dispatch Note

Tangmere Composting Facility

City Fields Industrial Estate

Tangmere

West Sussex

PO20 2FP

Company Reg No.3629015

VAT No.816160744

Waste Carrier Licence no: CBDU162145

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

Time In 13:47
Date In 06/06/2018
Time Out 13:56
Date Out 06/06/2018
Vehicle E10TJT
Carrier TJ Transport Ltd

No.	Salesperson	Manager	Ref
1602	-No Sales Employee		609/15042

License No.
Client Blaze Construction Ltd
Address CRESSWELL PARK,
ROUNDSTONE LANE,

QTY / UNIT UNIT PRICE EXTENDED PRICE

Permit
Zone
Product Topsoil BS3882 (20MM)
EWC Code

1.00 /

19.02 / Tonnes

1st Weight: 12,260.00 Kg P+
2nd Weight: 31,280.00 Kg @+
Net Weight: 19,020.00 Kg

Si

WOODHORN GROUP

Date: 08/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO623452

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility
City Fields Industrial Estate
Tangmere

West Sussex

PO20 2FP

Company Reg No. 3629015

VAT No 816160744

Waste Carrier Licence no: CBDU162145

Time In 08:32

Date In 12/06/2018

Time Out 08:41

Date Out 12/06/2018

Vehicle E1TTJT

Carrier TJ Transport Ltd

License No.

Client Blaze Construction Ltd

Address CRESSWELL PARK,

ROUNDSTONE LANE,

Permit

Zone

Product Topsoil BS3882 (20MM)

EWC Code

1st Weight: 12,820.00 Kg @+

2nd Weight: 31,700.00 Kg @+

Net Weight: 18,880.00 Kg

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

No.	Salesperson	Manager	Ref
1716	-No Sales Employee-		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

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my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

E WOODHORN GROUP

Date: 08/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO623519

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility
City Fields Industrial EstateTangmere
West Sussex
PO20 2FPCompany Reg No 3629015
VAT No 816160744

Waste Carrier Licence no: C8DU162145

Time In 15.12
 Date In 12/06/2018
 Time Out 15.27
 Date Out 12/06/2018
 Vehicle E11TJT
 Carrier TJ Transport Ltd
 License No.
 Client Blaze Construction Ltd
 Address CRESSWELL PARK,
 ROUNDSTONE LANE,
 Permit
 Zone
 Product Topsoil BS3882 (20MM)
 EWC Code
 1st Weight: 12,760.00 Kg @+
 2nd Weight: 31,620.00 Kg @+
 Net Weight: 18,860.00 Kg

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

b No.	Salesperson	Manager	Ref
1713	-No Sales Employee-		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

By Signing this document I confirm that I have fulfilled
 my duty to apply the waste hierarchy as required by
 Regulation 12 of the waste (England and Wales)

Signature

E WOODHORN GROUP

Date: 08/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO623460

WOODHORN GROUP Ltd

Tangmere Composting Facility
 City Fields Industrial Estate
 Tangmere
 West Sussex
 PO20 2FP

Company Reg No 3629015
 VAT No 816160744

Waste Carrier Licence no. CB00162145

Time In 09:27
 Date In 12/06/2018
 Time Out 09:35
 Date Out 12/06/2018
 Vehicle N40TJT
 Carrier TJ Transport Ltd
 License No.
 Client Blaze Construction Ltd
 Address CRESSWELL PARK,
 ROUNDSTONE LANE,

Permit
 Zone
 Product Topsoil BS3382 (20MM)
 EWC Code

1st Weight 12,300.00 Kg @+
 2nd Weight 31,560.00 Kg @+
 Net We 19,260.00 Kg

Job Site/Ship To:

Blaze Construction Ltd
 CALA HOMES SITE
 CRESSWELL PARK
 ROUNDSTONE LANE
 ANGMERING

No.	Salesperson	Manager	Ref
1715	No Sales Employee		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

Sign

E WOODHORN GROUP

Date: 08/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO623541

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility
 City Fields Industrial Estate
 Tangmere
 West Sussex
 PO20 2FP

Company Reg No. 3629015
 VAT No. 816180744

Waste Carrier Licence no: CBDU182145

Time In 09:24
 Date In 13/06/2018
 Time Out 09:36
 Date Out 13/06/2018
 Vehicle E11TJT
 Carrier TJ Transport Ltd
 License No.
 Client Blaze Construction Ltd
 Address CRESSWELL PARK,
 ROUNDSTONE LANE,

Permit
 Zone
 Product Topsoil BS3882 (20MM)
 EWC Code

1st Weight: 12,800.00 Kg P+
 2nd Weight: 31,220.00 Kg @+
 Net Weight: 18,420.00 Kg

By Signing this document I confirm that I have fulfilled
 my duty to apply the waste hierarchy as required by
 Regulation 12 of the waste (England and Wales)

Job Site/Ship To:

Blaze Construction Ltd
 CALA HOMES SITE
 CRESSWELL PARK
 ROUNDSTONE LANE
 ANGMERING

No.	Salesperson	Manager	Ref
19	No Sales Employee		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

E WOODHORN GROUP

Date: 08/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO623584

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility
City Fields Industrial Estate
Tangmere
West Sussex
PO20 2FP
Company Reg No 3629015
VAT No 816160744

Waste Carrier Licence no: CBDU162145

Time In 14:00
Date In 13/06/2018
Time Out 14:07
Date Out 13/06/2018
Vehicle E11TJT
Carrier TJ Transport Ltd
License No
Client Blaze Construction Ltd
Address CRESSWELL PARK
ROUNDSTONE LANE
Permit
Cons
Product Topsoil BS3582 (20MM)
EWG Code
Gross Weight 12,920.00 Kg P+
Gross Weight 11,300.00 Kg P+
Net Weight 18,980.00 Kg

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

No.	Salesperson	Manager	Ref
1718	-No Sales Employee-		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

By Signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO623555

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility
City Fields Industrial Estate

Tangmere
West Sussex

PO20 2FP

Company Reg No. 3629015

VAT No. 816160744

Waste Carrier Licence no. C8DU182145

Time In 11:10

Date In 13/06/2018

Time Out 11:25

Date Out 13/06/2018

Vehicle E11TJT

Carrier TJ Transport Ltd

Client Blaze Construction Ltd

Address CRESSWELL PARK,

ROUNDSTONE LANE,

Permit

Zone

Product Topsoil BS3882 (20MM)

EWC Code

1st Weight: 12,680.00 Kg P+

2nd Weight: 31,020.00 Kg @+

Net Weight: 18,340.00 Kg

Job Site/Ship To:

Blaze Construction Ltd

CALA HOMES SITE

CRESSWELL PARK

ROUNDSTONE LANE

ANGMERING

Job No.

41720

Salesperson

-No Sales Employee-

Manager

Ref

609/15042

QTY / UNIT

UNIT PRICE

EXTENDED PRICE

1.00 /

19.00 / Tonnes

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my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

WOODHORN GROUP

Date: 22/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO624559

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility
City Fields Industrial Estate
Tangmere
West Sussex
PO20 2FP
Company Reg No 3629016
VAT No.816160744

Waste Carrier Licence no: C80U162145

Time In 09:47
Date In 25/06/2018
Time Out 03:54
Date Out 25/06/2018
Vehicle E10TJT
Carrier TJ Transport Ltd
License No
Client Blaze Construction Ltd
Address CRESSWELL PARK,
ROUNDSTONE LANE,

Permit
Zone
Product Topsoil BS3882 (20MM)
EWC Code

1st Weight 12,580.00 Kg NONE
2nd Weight 31,680.00 Kg NONE
Net Weight 19,100.00 Kg

By Signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

Salesperson	Manager	Ref
No Sales Employee		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

E WOODHORN GROUP

Date: 22/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO624543

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility
City Fields Industrial EstateTangmere
West Sussex
PO20 2FP

Company Reg No 3629015

VAT No 816180744

Waste Carrier Licence no: C8DU162145

Time In 08:17
Date In 25/06/2018
Time Out 08:28
Date Out 25/06/2018
Vehicle E10TJT
Carrier TJ Transport Ltd
License No.Client Blaze Construction Ltd
Address CRESSWELL PARK
ROUNDSTONE LANEPermit
Zone
Product Topsoil BS3882 (20MM)
EWC Code

1st Weight 12,620.00 Kg NONE

2nd Weight 31,680.00 Kg NONE

Net Weight 19,060.00 Kg

By Signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

Job No.

41908

Salesperson

-No Sales Employee-

Manager

Ref

609/15042

QTY / UNIT

UNIT PRICE

EXTENDED PRICE

1.00 /

19.00 / Tonnes

Sign

E WOODHORN GROUP

Date: 22/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DD624733

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility

City Fields Industrial Estate

Tangmere

West Sussex

PO20 2FP

Company Reg No. 3629015

VAT No. 816160744

Waste Carrier Licence no: CBPU162145

Time In 13.24
 Date In 26/06/2018
 Time Out 13.35
 Date Out 26/06/2018
 Vehicle N48TJT
 Carrier TJ Transport Ltd
 License No.
 Client Blaze Construction Ltd
 Address CRESSWELL PARK,
 ROUNDSTONE LANE,

Permit
 Zone
 Product Topsoil BS3882 (20MM)
 EWC Code

1st Weight: 12,680.00 Kg NONE
 2nd Weight: 31,820.00 Kg NONE
 Net Weight: 19,140.00 Kg

By Signing this document I confirm that I have fulfilled
 my duty to apply the waste hierarchy as required by
 Regulation 12 of the waste (England and Wales)

Job Site/Ship To:

Blaze Construction Ltd
 CALA HOMES SITE
 CRESSWELL PARK
 ROUNDSTONE LANE
 ANGMERING

Salesperson	Manager	Ref
No Sales Employee		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

E WOODHORN GROUP

Date: 22/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET
Ticket No. DO624722

WOODHORN GROUP Ltd

Tangmere Composting Facility
City Fields Industrial Estate
Tangmere
West Sussex
PO20 2FP
Company Reg No. 3629015
VAT No. 816160744

Waste Carrier Licence no: CBSU162145

Time In 12:38
Date In 26/06/2018
Time Out 12:44
Date Out 26/06/2018

Vehicle E10TJT
Carrier TJ Transport Ltd

License No.
Client Blaze Construction Ltd
Address CRESSWELL PARK,
ROUNDSTONE LANE,

Permit
Zone
Product Topsoil BS3882 (20MM)
EWC Code

1st Weight: 12,520.00 Kg NONE
2nd Weight: 31,520.00 Kg NONE
Net Weight: 18,800.00 Kg

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

No.	Salesperson	Manager	Ref
1910	No Sales Employee		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
1.00 /		
19.00 / Tonnes		

Signature

THE WOODHORN GROUP

Date: 26/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO624858

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility

City Fields Industrial Estate

Tangmere

West Sussex

PO20 2FP

Company Reg No 3629015

VAT No 816160744

Waste Carrier Licence no: GBDU162145

Time In 13:59

Date In 27/06/2018

Time Out 14:10

Date Out 27/06/2018

Vehicle V26TJT

Carrier TJ Transport Ltd

License No. Blaze Construction Ltd

Client CRESSWELL PARK,

Address ROUNDSTONE LANE,

Permit

Zone

Product Topsoil BS3882 (20MM)

FWC Code

Net Weight: 12,760.00 Kg NONE

Gross Weight: 31,440.00 Kg NONE

Net Weight: 18,680.00 Kg

By Signing this document I confirm that I have fulfilled

my duty to apply the waste hierarchy as required by

Regulation 12 of the waste (England and Wales)

Job Site/Ship To:

Blaze Construction Ltd

CALA HOMES SITE

CRESSWELL PARK

ROUNDSTONE LANE

ANGMERING

Job No.	Salesperson	Manager	Ref
41979	No Sales Employee		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /		
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19.00 / Tonnes		
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WEIGHBRIDGE TICKET

Ticket No. DO624807

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility

City Fields Industrial Estate

Tangmere

West Sussex

PO20 2FP

Company Reg No.3629015

VAT No.816160744

Waste Carrier Licence no: CBDU162145

Time In 09:31

Date In 27/06/2018

Time Out 09:39

Date Out 27/06/2018

Vehicle V26TJT

Carrier TJ Transport Ltd

License No.

Client Blaze Construction Ltd

Address CRESSWELL PARK,

ROUNDSTONE LANE,

Permit

Zone

Product Topsoil BS3882 (20MM)

EWC Code

1st Weight: 12,800.00 Kg NONE

2nd Weight: 31,940.00 Kg NONE

Net Weight: 19,140.00 Kg

By Signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

WOODHORN GROUP

Date: 26/06/2018

Page: 1

Dispatch Note

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

Salesperson

-No Sales Employee-

Manager

Ref

609/15042

QTY / UNIT

UNIT PRICE

EXTENDED PRICE

1.00 /

19.14 / Tonnes

WEIGHBRIDGE TICKET
Ticket No. DO624815
CONVEYANCE NOTE

E WOODHORN GROUP

Date: 26/06/2018

Page: 1

Dispatch Note

WOODHORN GROUP Ltd

Angmere Composting Facility
City Fields Industrial Estate
Angmere
West Sussex
PO20 2FP

Company Reg No.3629015
/AT No.816160744

Waste Carrier Licence no: CBDU162145

Time In 10:19
Date In 27/06/2018
Time Out 10:27
Date Out 27/06/2018

Vehicle S28TJT
Carrier TJ Transport Ltd

License No.

Client Blaze Construction Ltd
Address CRESSWELL PARK,
ROUNDSTONE LANE,

Permit
one
Product Topsoil BS3882 (20MM)
WC Code

Net Weight: 12,120.00 Kg NONE
Gross Weight: 31,080.00 Kg NONE
Tare Weight: 18,960.00 Kg

Signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

No.	Salesperson	Manager	Ref
1972	-No Sales Employee-		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
------------	------------	----------------

1.00 /

18.96 / Tonnes

Signature

THE WOODHORN GROUP

Date: 26/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO624791

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility
City Fields Industrial Estate

Tangmere
West Sussex
PO20 2FP

Company Reg No. 3638015
VAT No. 816160744

Waste Carrier Licence no. CBDU182145

Time In 08:42
Date In 27/06/2018
Time Out 08:51
Date Out 27/06/2018
Vehicle V12TJT
Carrier TJ Transport Ltd
License No.
Client Blaze Construction Ltd
Address CRESSWELL PARK,
ROUNDSTONE LANE.

Permit
Zone
Product Topsoil BS3882 (20MM)
EWC Code

1st Weight 12,800.00 Kg NONE
2nd Weight 31,750.00 Kg NONE
Net Weight 18,950.00 Kg

By Signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

No.	Salesperson	Manager	Ref
967	-No Sales Employee		

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
------------	------------	----------------

1.00 /

19.00 / Tonnes

Signature

Co

Co

WEIGHBRIDGE TICKET
Ticket No. DO624823
CONVEYANCE NOTE**WOODHORN GROUP**

Date: 26/06/2018

Page: 1

WOODHORN GROUP Ltd**Dispatch Note****Tangmere Composting Facility**

City Fields Industrial Estate

Tangmere

West Sussex

PO20 2FP

Company Reg No.3629015

VAT No.816160744

Waste Carrier Licence no: CBDU162145

Job Site/Ship To:Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

Co.	Salesperson	Manager	Ref
76	-No Sales Employee-		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
------------	------------	----------------

	1.00 /	
	19.18 / Tonnes	

Time In 11:01
Date In 27/06/2018
Time Out 11:17
Date Out 27/06/2018
Vehicle V26TJT
Carrier TJ Transport Ltd
License No.
Client Blaze Construction Ltd
Address CRESSWELL PARK,
ROUNDSTONE LANE,
Permit
Zone
Product Topsoil BS3882 (20MM)
EWC Code
1st Weight: 12,780.00 Kg NONE
2nd Weight: 31,960.00 Kg NONE
Net Weight: 19,180.00 Kg

By Signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

Sig

E WOODHORN GROUP

Date: 26/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO624841

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility

City Fields Industrial Estate

Tangmere

West Sussex

PO20 2FP

Company Reg No. 3629015

VAT No 816160744

Waste Carrier Licence no. CBDU162146

Time In 13:08

Date In 27/06/2018

Time Out 13:16

Date Out 27/06/2018

Vehicle 628TJT

Carrier TJ Transport Ltd

License No.

Client Blaze Construction Ltd

Address CRESSWELL PARK,

ROUNDSTONE LANE,

Permit

Zone

Product Topsoil BS3882 (20MM)

EWC Code

1st Weight: 12,100.00 Kg NONE

2nd Weight: 30,960.00 Kg NONE

Net Weight: 18,860.00 Kg

By Signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

No.	Salesperson	Manager	Ref
978	-No Sales Employee-		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
------------	------------	----------------

1.00 /

19.00 / Tonnes

Signature

Co

Co

THE WOODHORN GROUP

Date: 04/06/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DO624920

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility
City Fields Industrial Estate

Tangmere
West Sussex
PO20 2FP

Company Reg No. 3629015
VAT No. 816160744

Waste Carrier Licence no. CSDU162145

Time In 09:08
Date In 28/06/2018
Time Out 09:17
Date Out 28/06/2018

Vehicle E181JT

Carrier TJ Transport

License No.

Client TJ Transport

Address Charity Farm, 127 Wickham

Road, PO17 5BP. SIC Code:

Permit

Zone

Product Topsoil BS3882 (20MM)

EW Code

1st Weight 12,760.00 Kg NONE

2nd Weight 31,880.00 Kg NONE

Net Weight 19,120.00 Kg

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESWELL PARK
ROUNDSTONE LANE
ANGMERING

No.	Salesperson	Manager	Ref
802	-No Sales Employee		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
1.00 /		
19.00 / Tonnes		

By Signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

Comp

Comp

WEIGHBRIDGE TICKET
Ticket No. DO624930
CONVEYANCE NOTE**WOODHORN GROUP Ltd**

Tangmere Composting Facility

City Fields Industrial Estate

Tangmere

West Sussex

PO20 2FP

Company Reg No.3629015

VAT No.816160744

Waste Carrier Licence no: CBDU162145

Time In 10:42

Date In 28/06/2018

Time Out 10:50

Date Out 28/06/2018

Vehicle E10TJT

Carrier TJ Transport Ltd

License No.

Client Blaze Construction Ltd

Address CRESSWELL PARK,
ROUNDSTONE LANE,

Permit

Zone

Product Topsoil BS3882 (20MM)

EWC Code

1st Weight: 12,700.00 Kg NONE

2nd Weight: 31,780.00 Kg NONE

Net Weight: 19,080.00 Kg

By Signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

WOODHORN GROUP

Date: 22/06/2018

Page: 1

Dispatch Note**Job Site/Ship To:**Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

Salesperson

-No Sales Employee-

Manager

Ref

609/15042

QTY / UNIT

UNIT PRICE

EXTENDED PRICE

1.00 /

19.08 / Tonnes

Dispatch Note

WEIGHBRIDGE TICKET
Ticket No. DD622527
CONVEYANCE NOTE
WOODHORN GROUP LTD

Tangmere Composting Facility
City Fields Industrial Estate
Tangmere
West Sussex
PO20 2FP
Company Reg No 3629015
VAT No 816160744

Vehicle Carrier Licence no. CS00162145

Time In 09:38

Date In 30/05/2018

Time Out 09:58

Date Out 30/05/2018

Vehicle E11TJT

Carrier T4 Transport Ltd

License No

Client Blaze Construction Ltd

Address CRESSWELL PARK

ROUNDSTONE LANE

Permit

Zone

Product Topsoil 821225 (20mm)

EWC Code

1st Weight 12,240.00 Kg @

2nd Weight 21,940.00 Kg None

Net Weight 19,240.00 Kg

By signing this document I confirm that I have fulfilled

my duty to apply the waste hierarchy as required by

Regulation 12 of the waste (England and Wales)

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

No	Salesperson	Manager	Ref
1468	No Sales Employee		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
------------	------------	----------------

1.00 /

19.00 / Tonnes

Date: 24/05/2018

Page: 1

Dispatch Note

7-700 40 3-2012
2-0-00744

DATE LOANED TO: 080-18345

IN	1124
Out	30/03/2018
FOOT	1138
NO	30/05/2018
NO	61131
NAME No	TJ Transport Ltd
NAME	
ADDRESS	Blaze Construction Ltd CHESWELL PARK ROUNSTONE LANE
PERIOD	

Serial	Barcode	Store Lane
Zone		
Product	Topcon B53812 (20MM)	
ENC Code		
Net Weight	12.750.00	kg
Gross Weight	31.600.00	kg
Net Weight	1.640.00	kg

By signing this document, I confirm that I have fulfilled
my duty to apply the above hierarchy as required by
Regulation 12 of the Waste (England and Wales)

Job Site/Ship To:

Blaze Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

Job No.	Salesperson	Manager	Ref
41469	-No Sales Employee-		609/15042

	QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. DD622509

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Tangmere Composting Facility
City Fields Industrial Estate
TangmereWest Sussex
PO20 2PP

Company Reg No 3629015

VAT No B16160744

Waste Carrier Licence no: 2804162145

Time In 15:52

Date In 29/05/2018

Time Out 16:00

Date Out 29/05/2018

Vehicle E11TJT

Carrier TJ Transport Ltd

Licence No

Client Blaze Construction Ltd

Address CRESSWELL PARK

ROUNDSTONE LANE

Permit

Zone

Product Topsoil BS1482 (20MM)

RWC Code

Gross Weight 12,200.00 Kg NONE

Tare Weight 11,220.00 Kg 0.00

Net Weight 980.00 Kg

By signing this document I confirm that I have fulfilled
my duty to apply the waste hierarchy as required by
Regulation 12 of the waste (England and Wales)

Signature

Job Site/Ship To:

 Blaze Construction Ltd
 CALA HOMES SITE
 CRESSWELL PARK
 ROUNDSTONE LANE
 ANGMERING

Salesperson

No Sales Employee

Manager

Ref

609/15042

QTY / UNIT

UNIT PRICE

EXTENDED PRICE

1.00 /

19.00 / Tonnes

IE WOODHORN GROUP

Date: 24/05/2018

Page: 1

Dispatch Note

WEIGHBRIDGE TICKET

Ticket No. D0622577

CONVEYANCE NOTE

WOODHORN GROUP Ltd

Targmore Composting Facility

City Fields Industrial Estate

Targmore

West Sussex

PO20 2TP

Company Reg No 3629015

VAT No 616160744

Waste Carrier Licence no: CR00132145

Time In 14:08

Date In 30/05/2018

Time Out 14:23

Date Out 30/05/2018

Vehicle E11TJ1

Carrier T2 Transport Ltd

License No.

Client Blaza Construction Ltd

Address CRESSWELL PARK

ROUNDSTONE LANE

Product TSP001 BS1882 (20MM)

PAC Code

Net Weight 12700.00 Kg P+

Net Weight 31040.00 Kg @+

Net Weight 18340.00 Kg

I hereby declare that I have fulfilled

my duty to apply the waste hierarchy as required by

Regulation 12 of the Waste (England and Wales)

Job Site/Ship To:

Blaza Construction Ltd
CALA HOMES SITE
CRESSWELL PARK
ROUNDSTONE LANE
ANGMERING

Job No.	Salesperson	Manager	Ref
41467	No Sales Employee		609/15042

QTY / UNIT	UNIT PRICE	EXTENDED PRICE
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1.00 /

19.00 / Tonnes



APPENDIX E LABORATORY CERTIFICATES

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 18/06715
Issue Number: 1

Date: 30 August, 2018

Client: RSK Environment Ltd Southampton
Unit 26
Basepoint Abbey Enterprise Centre
Premier Way
Romsey,
Hampshire
UK
SO51 9AQ

Project Manager: Catherine Cussell; All RSK Southampton
Project Name: Angmering
Project Ref: 305021
Order No: N/A
Date Samples Received: 23/08/18
Date Instructions Received: 23/08/18
Date Analysis Completed: 30/08/18

Prepared by:

Approved by:

Melanie Marshall
Laboratory Coordinator

John Gustafson
Managing Director

Envirolab Job Number: 18/06715

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06715/1	18/06715/2	18/06715/3	18/06715/4	18/06715/5				Units	Method ref
Client Sample No										
Client Sample ID	Plot 118 RG	Plot 118 RG	Plot 119 RG	Plot 103 RG	Plot 104 RG					
Depth to Top	0.10	0.30	0.05	0.10	0.10					
Depth To Bottom	0.20	0.40	0.15	0.20	0.20					
Date Sampled	21-Aug-18	21-Aug-18	21-Aug-18	21-Aug-18	21-Aug-18					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	5A	5A	4A	4A	4A					
% Stones >10mm _A	8.6	12.0	2.1	1.0	0.6				% w/w	A-T-044
pH _D ^{M#}	7.53	7.73	7.39	7.20	7.22				pH	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	0.05	0.05	0.03	0.03	0.03				g/l	A-T-026s
Sulphate (acid soluble) _D ^{M#}	330	360	230	250	240				mg/kg	A-T-028s
Arsenic _D ^{M#}	3	6	4	3	4				mg/kg	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	<0.5	<0.5	<0.5				mg/kg	A-T-024s
Copper _D ^{M#}	12	8	13	7	7				mg/kg	A-T-024s
Chromium _D ^{M#}	16	26	6	19	16				mg/kg	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1				mg/kg	A-T-040s
Lead _D ^{M#}	19	14	14	15	20				mg/kg	A-T-024s
Mercury _D	0.50	0.56	0.23	<0.17	0.18				mg/kg	A-T-024s
Nickel _D ^{M#}	17	20	12	22	21				mg/kg	A-T-024s
Selenium _D [#]	<1	<1	<1	2	<1				mg/kg	A-T-024s
Zinc _D ^{M#}	47	47	34	44	44				mg/kg	A-T-024s

Envirolab Job Number: 18/06715

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06715/1	18/06715/2	18/06715/3	18/06715/4	18/06715/5				Units	Method ref
Client Sample No										
Client Sample ID	Plot 118 RG	Plot 118 RG	Plot 119 RG	Plot 103 RG	Plot 104 RG					
Depth to Top	0.10	0.30	0.05	0.10	0.10					
Depth To Bottom	0.20	0.40	0.15	0.20	0.20					
Date Sampled	21-Aug-18	21-Aug-18	21-Aug-18	21-Aug-18	21-Aug-18					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	5A	5A	4A	4A	4A					
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	NAD	NAD	NAD					A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	N/A	N/A	N/A	N/A	N/A					

Envirolab Job Number: 18/06715

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06715/1	18/06715/2	18/06715/3	18/06715/4	18/06715/5				Units	Method ref
Client Sample No										
Client Sample ID	Plot 118 RG	Plot 118 RG	Plot 119 RG	Plot 103 RG	Plot 104 RG					
Depth to Top	0.10	0.30	0.05	0.10	0.10					
Depth To Bottom	0.20	0.40	0.15	0.20	0.20					
Date Sampled	21-Aug-18	21-Aug-18	21-Aug-18	21-Aug-18	21-Aug-18					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	5A	5A	4A	4A	4A					
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01				mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01				mg/kg	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	<0.02	<0.02				mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.06	<0.04	<0.04	<0.04	<0.04				mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.04	<0.04	<0.04	<0.04	<0.04				mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.08	<0.05	<0.05	<0.05	<0.05				mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05				mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07				mg/kg	A-T-019s
Chrysene _A ^{M#}	0.08	<0.06	<0.06	<0.06	<0.06				mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04				mg/kg	A-T-019s
Fluoranthene _A ^{M#}	0.10	<0.08	0.13	0.11	<0.08				mg/kg	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01				mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.04	<0.03	0.03	<0.03	<0.03				mg/kg	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03				mg/kg	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	0.03	0.06	0.05				mg/kg	A-T-019s
Pyrene _A ^{M#}	0.09	<0.07	0.12	<0.07	<0.07				mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	0.49	<0.08	0.31	0.17	<0.08				mg/kg	A-T-019s

Envirolab Job Number: 18/06715

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06715/1	18/06715/2	18/06715/3	18/06715/4	18/06715/5				Units	Method ref
Client Sample No										
Client Sample ID	Plot 118 RG	Plot 118 RG	Plot 119 RG	Plot 103 RG	Plot 104 RG					
Depth to Top	0.10	0.30	0.05	0.10	0.10					
Depth To Bottom	0.20	0.40	0.15	0.20	0.20					
Date Sampled	21-Aug-18	21-Aug-18	21-Aug-18	21-Aug-18	21-Aug-18					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	5A	5A	4A	4A	4A					
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01				mg/kg	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01				mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	<1	<1	<1	<1	<1				mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1				mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	<1	<1				mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	1	<1	2	4	2				mg/kg	A-T-055s
Ali >C21-C35 _A	10	<1	13	24	18				mg/kg	A-T-055s
Total Aliphatics >C5-C35 _A	11	<1	15	27	21				mg/kg	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01				mg/kg	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01				mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	2	1	2	2	2				mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1				mg/kg	A-T-055s
Aro >C12-C16 _A	2	<1	3	7	6				mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	6	<1	7	16	11				mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	96	6	116	228	167				mg/kg	A-T-055s
Total Aromatics >C5-C35 _A	107	8	129	254	187				mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A	118	8	144	281	207				mg/kg	A-T-055s
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01				mg/kg	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01				mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01				mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01				mg/kg	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01				mg/kg	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01				mg/kg	A-T-022s

REPORT NOTES

General:

This report shall not be reproduced, except in full, without written approval from Envirolab.

All samples contained within this report, and any received with the same delivery, will be disposed of one month after the date of this report.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure and there is insufficient sample to repeat the analysis. These are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report



Client: RSK Environment
Centre, Premier Way, Romsey,, Hampshire, UK, SO51 5RQ
Project: Angmering
Clients Project No: 305021

18/06715
Date Instructions Received: 23/08/2018 (am)
Cool Box Temperatures (°C): 15.8

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 18/05998
Issue Number: 1
Date: 01 August, 2018

Client: RSK Environment Ltd Southampton
Unit 26
Basepoint Abbey Enterprise Centre
Premier Way
Romsey,
Hampshire
UK
SO51 9AQ

Project Manager: Catherine Cussell; All RSK Southampton
Project Name: Angmering
Project Ref: 27621
Order No: N/A
Date Samples Received: 26/07/18
Date Instructions Received: 26/07/18
Date Analysis Completed: 01/08/18

Prepared by:

Approved by:


Melanie Marshall
Laboratory Coordinator
Richard Wong
Client Manager

Envirolab Job Number: 18/05998

Client Project Name: Angmering

Client Project Ref: 27621

Lab Sample ID	18/05998/1	18/05998/2	18/05998/3						Units	Method ref
Client Sample No	1	1	1							
Client Sample ID	Plot 103 - RG	Plot 104 - RG	Plot 107 - RG							
Depth to Top	0.40	0.40	0.35							
Depth To Bottom										
Date Sampled	24-Jul-18	24-Jul-18	24-Jul-18							
Sample Type	Soil - ES	Soil - ES	Soil - ES							
Sample Matrix Code	6A	6A	5A							
% Stones >10mm _A	12.2	8.9	15.7						% w/w	A-T-044
pH _D ^{M#}	7.63	7.78	7.67						pH	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	0.05	0.06	0.05						g/l	A-T-026s
Sulphate (acid soluble) _D ^{M#}	230	<200	<200						mg/kg	A-T-028s
Arsenic _D ^{M#}	5	8	6						mg/kg	A-T-024s
Cadmium _D ^{M#}	0.8	1.1	0.8						mg/kg	A-T-024s
Copper _D ^{M#}	11	14	10						mg/kg	A-T-024s
Chromium _D ^{M#}	27	38	25						mg/kg	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1						mg/kg	A-T-040s
Lead _D ^{M#}	12	16	11						mg/kg	A-T-024s
Mercury _D	<0.17	<0.17	<0.17						mg/kg	A-T-024s
Nickel _D ^{M#}	23	30	22						mg/kg	A-T-024s
Selenium _D ^{M#}	<1	<1	<1						mg/kg	A-T-024s
Zinc _D ^{M#}	48	62	45						mg/kg	A-T-024s

Envirolab Job Number: 18/05998

Client Project Name: Angmering

Client Project Ref: 27621

Lab Sample ID	18/05998/1	18/05998/2	18/05998/3						Units	Method ref
Client Sample No	1	1	1							
Client Sample ID	Plot 103 - RG	Plot 104 - RG	Plot 107 - RG							
Depth to Top	0.40	0.40	0.35							
Depth To Bottom										
Date Sampled	24-Jul-18	24-Jul-18	24-Jul-18							
Sample Type	Soil - ES	Soil - ES	Soil - ES							
Sample Matrix Code	6A	6A	5A							
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	NAD							A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	N/A	N/A	N/A							

Envirolab Job Number: 18/05998

Client Project Name: Angmering

Client Project Ref: 27621

Lab Sample ID	18/05998/1	18/05998/2	18/05998/3						Units	Method ref
Client Sample No	1	1	1							
Client Sample ID	Plot 103 - RG	Plot 104 - RG	Plot 107 - RG							
Depth to Top	0.40	0.40	0.35							
Depth To Bottom										
Date Sampled	24-Jul-18	24-Jul-18	24-Jul-18							
Sample Type	Soil - ES	Soil - ES	Soil - ES							
Sample Matrix Code	6A	6A	5A							
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01						mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01						mg/kg	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02						mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	<0.04						mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	<0.04	<0.04						mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	<0.05	<0.05						mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	<0.05						mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07						mg/kg	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	<0.06						mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04						mg/kg	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	<0.08						mg/kg	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01						mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	<0.03						mg/kg	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03						mg/kg	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	<0.03						mg/kg	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	<0.07						mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	<0.08	<0.08	<0.08						mg/kg	A-T-019s

Envirolab Job Number: 18/05998

Client Project Name: Angmering

Client Project Ref: 27621

Lab Sample ID	18/05998/1	18/05998/2	18/05998/3						Units	Method ref
Client Sample No	1	1	1							
Client Sample ID	Plot 103 - RG	Plot 104 - RG	Plot 107 - RG							
Depth to Top	0.40	0.40	0.35							
Depth To Bottom										
Date Sampled	24-Jul-18	24-Jul-18	24-Jul-18							
Sample Type	Soil - ES	Soil - ES	Soil - ES							
Sample Matrix Code	6A	6A	5A							
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01						mg/kg	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01						mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	<1	<1	<1						mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1						mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1						mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	<1	<1						mg/kg	A-T-055s
Ali >C21-C35 _A	<1	<1	<1						mg/kg	A-T-055s
Total Aliphatics >C5-C35 _A	<1	<1	<1						mg/kg	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01						mg/kg	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01						mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	<1	<1	<1						mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	<1	<1	<1						mg/kg	A-T-055s
Aro >C12-C16 _A	<1	<1	<1						mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	<1	<1						mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	10	7	4						mg/kg	A-T-055s
Total Aromatics >C5-C35 _A	10	7	4						mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A	12	7	4						mg/kg	A-T-055s
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01						mg/kg	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01						mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01						mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01						mg/kg	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01						mg/kg	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01						mg/kg	A-T-022s

REPORT NOTES

General:

This report shall not be reproduced, except in full, without written approval from Envirolab.

All samples contained within this report, and any received with the same delivery, will be disposed of one month after the date of this report.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure and there is insufficient sample to repeat the analysis. These are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report



Client: RSK Environment Ltd [REDACTED] 05998
Centre, Premier Way [REDACTED]
Project: Angmering
Clients Project No: 27621
Date Instructions Received: 29/07/2018 (am)
Cool Box Temperatures (°C): 21.6

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 18/05982
Issue Number: 1
Date: 31 July, 2018

Client: RSK Environment Ltd Southampton
Unit 26
Basepoint Abbey Enterprise Centre
Premier Way
Romsey,
Hampshire
UK
SO51 9AQ

Project Manager: Andrew Denton; All RSK Southampton/Catherine Cusse
Project Name: Angmering
Project Ref: 305021
Order No: N/A
Date Samples Received: 25/07/18
Date Instructions Received: 25/07/18
Date Analysis Completed: 31/07/18

Prepared by:

Approved by:

Melanie Marshall
Laboratory Coordinator

Danielle Brierley
Client Manager

Envirolab Job Number: 18/05982

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/05982/1	18/05982/2	18/05982/3	18/05982/4	18/05982/5	18/05982/6	18/05982/7		Units	Method ref
Client Sample No	Topsoil	Subsoil	Topsoil	Subsoil	Topsoil	Topsoil	Topsoil			
Client Sample ID	Plot 105 rear garden	Plot 105 rear garden	Plot 106 rear garden	Plot 107 rear garden	Plot 108 rear garden	Plot 109 rear garden	Plot 110 rear garden			
Depth to Top			0.25	0.05	0.10	0.30				
Depth To Bottom										
Date Sampled	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4E	1A	4E	4E	4E	4AE	4AB			
% Stones >10mm _A	<0.1	4.8	<0.1	<0.1	<0.1	3.4	11.1		% w/w	A-T-044
pH _D ^{M#}	7.62	9.57	7.48	7.31	7.08	6.97	7.67		pH	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	0.02	0.10	0.04	0.04	0.05	0.04	0.05		g/l	A-T-026s
Sulphate (acid soluble) _D ^{M#}	260	360	310	270	290	310	270		mg/kg	A-T-028s
Arsenic _D ^{M#}	4	4	3	3	3	3	6		mg/kg	A-T-024s
Cadmium _D ^{M#}	1.0	1.1	0.7	0.8	0.8	0.6	1.3		mg/kg	A-T-024s
Copper _D ^{M#}	17	8	12	15	14	14	13		mg/kg	A-T-024s
Chromium _D ^{M#}	25	25	20	22	25	13	28		mg/kg	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1	<1		mg/kg	A-T-040s
Lead _D ^{M#}	20	9	16	16	17	18	12		mg/kg	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17		mg/kg	A-T-024s
Nickel _D ^{M#}	26	19	18	19	20	17	20		mg/kg	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1	2		mg/kg	A-T-024s
Zinc _D ^{M#}	58	39	39	44	47	41	44		mg/kg	A-T-024s

Envirolab Job Number: 18/05982

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/05982/1	18/05982/2	18/05982/3	18/05982/4	18/05982/5	18/05982/6	18/05982/7		Units	Method ref
Client Sample No	Topsoil	Subsoil	Topsoil	Subsoil	Topsoil	Topsoil	Topsoil			
Client Sample ID	Plot 105 rear garden	Plot 105 rear garden	Plot 106 rear garden	Plot 107 rear garden	Plot 108 rear garden	Plot 109 rear garden	Plot 110 rear garden			
Depth to Top			0.25	0.05	0.10	0.30				
Depth To Bottom										
Date Sampled	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4E	1A	4E	4E	4E	4AE	4AB			
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	NAD	NAD	NAD	NAD	NAD			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	N/A	N/A	N/A	N/A	N/A	N/A	N/A			

Envirolab Job Number: 18/05982

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/05982/1	18/05982/2	18/05982/3	18/05982/4	18/05982/5	18/05982/6	18/05982/7		Units	Method ref
Client Sample No	Topsoil	Subsoil	Topsoil	Subsoil	Topsoil	Topsoil	Topsoil			
Client Sample ID	Plot 105 rear garden	Plot 105 rear garden	Plot 106 rear garden	Plot 107 rear garden	Plot 108 rear garden	Plot 109 rear garden	Plot 110 rear garden			
Depth to Top			0.25	0.05	0.10	0.30				
Depth To Bottom										
Date Sampled	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4E	1A	4E	4E	4E	4AE	4AB			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.06	0.06	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	0.05	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.07	<0.05	<0.05	<0.05	<0.05	0.06	<0.05		mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07		mg/kg	A-T-019s
Chrysene _A ^{M#}	0.10	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06		mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	A-T-019s
Fluoranthene _A ^{M#}	0.17	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08		mg/kg	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	A-T-019s
Phenanthrene _A ^{M#}	0.08	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	A-T-019s
Pyrene _A ^{M#}	0.14	0.09	<0.07	<0.07	<0.07	<0.07	<0.07		mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	0.62	0.22	<0.08	<0.08	<0.08	<0.08	<0.08		mg/kg	A-T-019s

Envirolab Job Number: 18/05982

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/05982/1	18/05982/2	18/05982/3	18/05982/4	18/05982/5	18/05982/6	18/05982/7		Units	Method ref
Client Sample No	Topsoil	Subsoil	Topsoil	Subsoil	Topsoil	Topsoil	Topsoil			
Client Sample ID	Plot 105 rear garden	Plot 105 rear garden	Plot 106 rear garden	Plot 107 rear garden	Plot 108 rear garden	Plot 109 rear garden	Plot 110 rear garden			
Depth to Top			0.25	0.05	0.10	0.30				
Depth To Bottom										
Date Sampled	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18	23-Jul-18			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4E	1A	4E	4E	4E	4AE	4AB			
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01		mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1		mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1		mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1		mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	2	<1	2	2	2	1	<1		mg/kg	A-T-055s
Ali >C21-C35 _A	29	2	17	15	18	14	19		mg/kg	A-T-055s
Total Aliphatics >C5-C35 _A	31	2	19	17	20	15	19		mg/kg	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1		mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1		mg/kg	A-T-055s
Aro >C12-C16 _A	2	<1	1	<1	<1	<1	<1		mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	8	2	10	6	6	5	2		mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	132	5	189	110	129	122	36		mg/kg	A-T-055s
Total Aromatics >C5-C35 _A	143	7	201	115	134	127	38		mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A	174	9	221	132	155	143	58		mg/kg	A-T-055s
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	A-T-022s

REPORT NOTES

General:

This report shall not be reproduced, except in full, without written approval from Envirolab.

All samples contained within this report, and any received with the same delivery, will be disposed of one month after the date of this report.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure and there is insufficient sample to repeat the analysis. These are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

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11/17/2022 1:45 PM 11/17/2022 1:45 PM 11/17/2022 1:45 PM 11/17/2022 1:45 PM

Project No: 18/05982
Date Instructions Received: 25/07/2018 (am)
Cool Box Temperatures (°C): 18.8

Clients Project No: 305021

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 18/06700
Issue Number: 1

Date: 31 August, 2018

Client: RSK Environment Ltd Southampton
Unit 26
Basepoint Abbey Enterprise Centre
Premier Way
Romsey,
Hampshire
UK
SO51 9AQ

Project Manager: Catherine Cussell; All RSK Southampton/Ed Hughes;
Project Name: Angmering
Project Ref: 305021
Order No: N/A
Date Samples Received: 17/08/18
Date Instructions Received: 22/08/18
Date Analysis Completed: 31/08/18

Prepared by:

Approved by:

Melanie Marshall
Laboratory Coordinator

Iain Haslock
Analytical Consultant

Envirolab Job Number: 18/06700

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06700/1	18/06700/2	18/06700/3	18/06700/4	18/06700/5	18/06700/6	18/06700/7	18/06700/8	Units	Method ref
Client Sample No										
Client Sample ID	Plot 117 RG	Plot 117 RG	Plot 117 RG	Plot 93 RG	Plot 94 RG	Plot 95 RG	Plot 96 RG	Plot 97 RG		
Depth to Top	0.00	0.20	0.40	0.10	0.00	0.00	0.00	0.00		
Depth To Bottom	0.10	0.30	0.45	0.20	0.15	0.15	0.20	0.20		
Date Sampled	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18		
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Matrix Code	5A	3	5A	5A	3A	3A	5A	5A		
% Stones >10mm _A	2.8	<0.1	36.4	14.1	21.9	15.9	26.8	49.2	% w/w	A-T-044
pH _D ^{M#}	7.71	7.70	12.07	8.78	8.31	8.20	8.24	8.27	pH	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	0.03	0.05	0.05	0.05	0.04	0.03	0.03	0.02	g/l	A-T-026s
Sulphate (acid soluble) _D ^{M#}	260	240	1600	220	<200	<200	<200	<200	mg/kg	A-T-028s
Arsenic _D ^{M#}	<1	<1	1	3	<1	<1	1	1	mg/kg	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	A-T-024s
Copper _D ^{M#}	27	6	4	4	4	4	3	3	mg/kg	A-T-024s
Chromium _D ^{M#}	17	34	14	21	20	20	14	17	mg/kg	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-040s
Lead _D ^{M#}	16	15	6	8	8	8	7	5	mg/kg	A-T-024s
Mercury _D	<0.17	<0.17	0.20	0.34	<0.17	<0.17	<0.17	<0.17	mg/kg	A-T-024s
Nickel _D ^{M#}	15	26	11	17	17	19	14	11	mg/kg	A-T-024s
Selenium _D [#]	<1	<1	<1	2	<1	<1	<1	<1	mg/kg	A-T-024s
Zinc _D ^{M#}	41	57	31	32	31	37	28	21	mg/kg	A-T-024s

Envirolab Job Number: 18/06700

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06700/1	18/06700/2	18/06700/3	18/06700/4	18/06700/5	18/06700/6	18/06700/7	18/06700/8	Units	Method ref
Client Sample No										
Client Sample ID	Plot 117 RG	Plot 117 RG	Plot 117 RG	Plot 93 RG	Plot 94 RG	Plot 95 RG	Plot 96 RG	Plot 97 RG		
Depth to Top	0.00	0.20	0.40	0.10	0.00	0.00	0.00	0.00		
Depth To Bottom	0.10	0.30	0.45	0.20	0.15	0.15	0.20	0.20		
Date Sampled	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18		
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Matrix Code	5A	3	5A	5A	3A	3A	5A	5A		
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD		A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

Envirolab Job Number: 18/06700

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06700/1	18/06700/2	18/06700/3	18/06700/4	18/06700/5	18/06700/6	18/06700/7	18/06700/8	Units	Method ref
Client Sample No										
Client Sample ID	Plot 117 RG	Plot 117 RG	Plot 117 RG	Plot 93 RG	Plot 94 RG	Plot 95 RG	Plot 96 RG	Plot 97 RG		
Depth to Top	0.00	0.20	0.40	0.10	0.00	0.00	0.00	0.00		
Depth To Bottom	0.10	0.30	0.45	0.20	0.15	0.15	0.20	0.20		
Date Sampled	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18		
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Matrix Code	5A	3	5A	5A	3A	3A	5A	5A		
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	A-T-019s

Envirolab Job Number: 18/06700

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06700/1	18/06700/2	18/06700/3	18/06700/4	18/06700/5	18/06700/6	18/06700/7	18/06700/8	Units	Method ref
Client Sample No										
Client Sample ID	Plot 117 RG	Plot 117 RG	Plot 117 RG	Plot 93 RG	Plot 94 RG	Plot 95 RG	Plot 96 RG	Plot 97 RG		
Depth to Top	0.00	0.20	0.40	0.10	0.00	0.00	0.00	0.00		
Depth To Bottom	0.10	0.30	0.45	0.20	0.15	0.15	0.20	0.20		
Date Sampled	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18	16-Aug-18		
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Sample Matrix Code	5A	3	5A	5A	3A	3A	5A	5A		
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	4	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-055s
Ali >C21-C35 _A	9	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-055s
Total Aliphatics >C5-C35 _A	12	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	1	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-055s
Aro >C12-C16 _A	4	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	12	<1	<1	<1	<1	<1	<1	<1	mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	81	<1	1	2	<1	<1	<1	<1	mg/kg	A-T-055s
Total Aromatics >C5-C35 _A	99	<1	1	2	<1	<1	2	<1	mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A	111	<1	1	2	<1	<1	2	<1	mg/kg	A-T-055s
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	A-T-022s

Envirolab Job Number: 18/06700

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06700/9								Units	Method ref
Client Sample No										
Client Sample ID	Plot 98									
Depth to Top	0.00									
Depth To Bottom	0.40									
Date Sampled	16-Aug-18									
Sample Type	Soil									
Sample Matrix Code	3A									
% Stones >10mm _A	12.9								% w/w	A-T-044
pH _D ^{M#}	7.92								pH	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	0.07								g/l	A-T-026s
Sulphate (acid soluble) _D ^{M#}	230								mg/kg	A-T-028s
Arsenic _D ^{M#}	<1								mg/kg	A-T-024s
Cadmium _D ^{M#}	<0.5								mg/kg	A-T-024s
Copper _D ^{M#}	5								mg/kg	A-T-024s
Chromium _D ^{M#}	25								mg/kg	A-T-024s
Chromium (hexavalent) _D	<1								mg/kg	A-T-040s
Lead _D ^{M#}	11								mg/kg	A-T-024s
Mercury _D	<0.17								mg/kg	A-T-024s
Nickel _D ^{M#}	22								mg/kg	A-T-024s
Selenium _D [#]	<1								mg/kg	A-T-024s
Zinc _D ^{M#}	41								mg/kg	A-T-024s

Envirolab Job Number: 18/06700

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06700/9								Units	Method ref
Client Sample No										
Client Sample ID	Plot 98									
Depth to Top	0.00									
Depth To Bottom	0.40									
Date Sampled	16-Aug-18									
Sample Type	Soil									
Sample Matrix Code	3A									
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD									A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	N/A									

Envirolab Job Number: 18/06700

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06700/9								Units	Method ref
Client Sample No										
Client Sample ID	Plot 98									
Depth to Top	0.00									
Depth To Bottom	0.40									
Date Sampled	16-Aug-18									
Sample Type	Soil									
Sample Matrix Code	3A									
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01								mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	<0.01								mg/kg	A-T-019s
Anthracene _A ^{M#}	<0.02								mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04								mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04								mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05								mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05								mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07								mg/kg	A-T-019s
Chrysene _A ^{M#}	<0.06								mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04								mg/kg	A-T-019s
Fluoranthene _A ^{M#}	<0.08								mg/kg	A-T-019s
Fluorene _A ^{M#}	<0.01								mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03								mg/kg	A-T-019s
Naphthalene _A ^{M#}	<0.03								mg/kg	A-T-019s
Phenanthrene _A ^{M#}	<0.03								mg/kg	A-T-019s
Pyrene _A ^{M#}	<0.07								mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	<0.08								mg/kg	A-T-019s

Envirolab Job Number: 18/06700

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06700/9								Units	Method ref
Client Sample No										
Client Sample ID	Plot 98									
Depth to Top	0.00									
Depth To Bottom	0.40									
Date Sampled	16-Aug-18									
Sample Type	Soil									
Sample Matrix Code	3A									
TPH CWG										
Ali >C5-C6 _A [#]	<0.01								mg/kg	A-T-022s
Ali >C6-C8 _A [#]	<0.01								mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	<1								mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	<1								mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	<1								mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	<1								mg/kg	A-T-055s
Ali >C21-C35 _A	<1								mg/kg	A-T-055s
Total Aliphatics >C5-C35 _A	<1								mg/kg	A-T-055s
Aro >C5-C7 _A [#]	<0.01								mg/kg	A-T-022s
Aro >C7-C8 _A [#]	<0.01								mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	<1								mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	<1								mg/kg	A-T-055s
Aro >C12-C16 _A	<1								mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	<1								mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	2								mg/kg	A-T-055s
Total Aromatics >C5-C35 _A	2								mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A	3								mg/kg	A-T-055s
BTEX - Benzene _A [#]	<0.01								mg/kg	A-T-022s
BTEX - Toluene _A [#]	<0.01								mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01								mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01								mg/kg	A-T-022s
BTEX - o Xylene _A [#]	<0.01								mg/kg	A-T-022s
MTBE _A [#]	<0.01								mg/kg	A-T-022s

REPORT NOTES

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Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure and there is insufficient sample to repeat the analysis. These are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report



Client: RSK Environment
Centre, Premier Way, Romsey,, Hampshire, UK, SO51 9AQ
Project: Angmering
Clients Project No: 305021

18/06700
Date Instructions Received: 22/08/2018 (am)
Cool Box Temperatures (°C): 18.6

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 18/06556
Issue Number: 1
Date: 21 August, 2018

Client: RSK Environment Ltd Southampton
Unit 26
Basepoint Abbey Enterprise Centre
Premier Way
Romsey,
Hampshire
UK
SO51 9AQ

Project Manager: Catherine Cussell; All RSK Southampton
Project Name: Angmering
Project Ref: 305021
Order No: N/A
Date Samples Received: 16/08/18
Date Instructions Received: 16/08/18
Date Analysis Completed: 21/08/18

Prepared by:

Approved by:



Melanie Marshall
Laboratory Coordinator

John Gustafson
Managing Director

Envirolab Job Number: 18/06556

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06556/1	18/06556/2	18/06556/3	18/06556/4	18/06556/5	18/06556/6			Units	Method ref
Client Sample No										
Client Sample ID	Plot 104	Plot 104	Plot 85 to 92A	Plot 85 to 92A	Plot 85 to 92B	Plot 85 to 92B				
Depth to Top	0.10	0.20	0.00	0.30	0.00	0.30				
Depth To Bottom	0.20	0.30	0.10	0.40	0.15	0.40				
Date Sampled	14-Aug-18	14-Aug-18	14-Aug-18	14-Aug-18	14-Aug-18	14-Aug-18				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	5A	5A	1A	5A	4AE	5A				
% Stones >10mm _A	7.9	6.7	10.4	10.0	4.4	12.2			% w/w	A-T-044
pH _D ^{M#}	7.06	7.12	7.12	7.08	7.64	7.29			pH	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	0.06	0.07	0.09	0.05	0.05	0.13			g/l	A-T-026s
Sulphate (acid soluble) _D ^{M#}	<200	<200	300	<200	270	360			mg/kg	A-T-028s
Arsenic _D ^{M#}	6	5	6	6	4	6			mg/kg	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			mg/kg	A-T-024s
Copper _D ^{M#}	9	9	7	8	14	10			mg/kg	A-T-024s
Chromium _D ^{M#}	24	26	17	20	17	19			mg/kg	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1			mg/kg	A-T-040s
Lead _D ^{M#}	12	12	10	8	20	12			mg/kg	A-T-024s
Mercury _D	<0.17	0.25	0.28	0.26	0.21	0.30			mg/kg	A-T-024s
Nickel _D ^{M#}	20	21	15	14	20	17			mg/kg	A-T-024s
Selenium _D [#]	<1	<1	<1	<1	<1	<1			mg/kg	A-T-024s
Zinc _D ^{M#}	39	39	30	27	49	34			mg/kg	A-T-024s

Envirolab Job Number: 18/06556

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06556/1	18/06556/2	18/06556/3	18/06556/4	18/06556/5	18/06556/6			Units	Method ref
Client Sample No										
Client Sample ID	Plot 104	Plot 104	Plot 85 to 92A	Plot 85 to 92A	Plot 85 to 92B	Plot 85 to 92B				
Depth to Top	0.10	0.20	0.00	0.30	0.00	0.30				
Depth To Bottom	0.20	0.30	0.10	0.40	0.15	0.40				
Date Sampled	14-Aug-18	14-Aug-18	14-Aug-18	14-Aug-18	14-Aug-18	14-Aug-18				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	5A	5A	1A	5A	4AE	5A				
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	NAD	NAD	NAD	NAD				A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	N/A	N/A	N/A	N/A	N/A	N/A				

Envirolab Job Number: 18/06556

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06556/1	18/06556/2	18/06556/3	18/06556/4	18/06556/5	18/06556/6			Units	Method ref
Client Sample No										
Client Sample ID	Plot 104	Plot 104	Plot 85 to 92A	Plot 85 to 92A	Plot 85 to 92B	Plot 85 to 92B				
Depth to Top	0.10	0.20	0.00	0.30	0.00	0.30				
Depth To Bottom	0.20	0.30	0.10	0.40	0.15	0.40				
Date Sampled	14-Aug-18	14-Aug-18	14-Aug-18	14-Aug-18	14-Aug-18	14-Aug-18				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	5A	5A	1A	5A	4AE	5A				
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	0.02	<0.01	<0.01	<0.01			mg/kg	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	0.04	<0.02	<0.02	<0.02			mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	0.27	<0.04	<0.04	<0.04			mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	<0.04	0.30	<0.04	<0.04	<0.04			mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	<0.05	0.35	<0.05	<0.05	<0.05			mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	0.16	<0.05	<0.05	<0.05			mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	0.15	<0.07	<0.07	<0.07			mg/kg	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	0.31	<0.06	<0.06	<0.06			mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04			mg/kg	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	0.41	<0.08	<0.08	<0.08			mg/kg	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	0.18	<0.03	<0.03	<0.03			mg/kg	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03			mg/kg	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	0.10	<0.03	<0.03	<0.03			mg/kg	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	0.44	<0.07	<0.07	<0.07			mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	<0.08	<0.08	2.73	<0.08	<0.08	<0.08			mg/kg	A-T-019s

Envirolab Job Number: 18/06556

Client Project Name: Angmering

Client Project Ref: 305021

Lab Sample ID	18/06556/1	18/06556/2	18/06556/3	18/06556/4	18/06556/5	18/06556/6			Units	Method ref
Client Sample No										
Client Sample ID	Plot 104	Plot 104	Plot 85 to 92A	Plot 85 to 92A	Plot 85 to 92B	Plot 85 to 92B				
Depth to Top	0.10	0.20	0.00	0.30	0.00	0.30				
Depth To Bottom	0.20	0.30	0.10	0.40	0.15	0.40				
Date Sampled	14-Aug-18	14-Aug-18	14-Aug-18	14-Aug-18	14-Aug-18	14-Aug-18				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	5A	5A	1A	5A	4AE	5A				
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	<1	<1	<1	<1	<1	<1			mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1	<1			mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	<1	<1	<1			mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	<1	<1	<1	1	<1			mg/kg	A-T-055s
Ali >C21-C35 _A	<1	1	1	<1	7	<1			mg/kg	A-T-055s
Total Aliphatics >C5-C35 _A	<1	1	1	<1	9	<1			mg/kg	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	<1	<1	<1	<1	<1	<1			mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1	<1			mg/kg	A-T-055s
Aro >C12-C16 _A	<1	<1	<1	<1	<1	<1			mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	<1	<1	<1	2	<1			mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	1	1	1	<1	85	2			mg/kg	A-T-055s
Total Aromatics >C5-C35 _A	1	1	1	<1	88	2			mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A	1	3	2	<1	97	2			mg/kg	A-T-055s
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	A-T-022s

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If results are in italic font they are associated with an AQC failure and there is insufficient sample to repeat the analysis. These are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report



Client: RSK Environment Ltd Southampton, Unit 26 , Basepoint Abbey Enterprise
Centre, Premier Way, Romsey,, Hampshire, UK, SO51 9AQ

Project No: 18/06556

Date Instructions Received: 16/08/2018 (am)

Project: Angmering

Cool Box Temperatures (°C): 16.2

Clients Project No: 305021

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.



APPENDIX F

RSK GENERIC ASSESSMENT CRITERIA

Generic assessment criteria for human health: residential scenario with home-grown produce

Background

RSK's generic assessment criteria (GAC) were initially prepared following the publication by the Environment Agency (EA) of soil guideline value (SGV) and toxicological (TOX) reports, and associated publications in 2009⁽¹⁾. RSK GAC were updated following the publication of GAC by LQM/CIEH in 2009⁽²⁾. RSK GAC are periodically revised when updated information on toxicological, land use or receptor parameters is published.

Updates to the RSK GAC

In 2014, the publication of Category 4 Screening Levels (C4SL)^(3,4), as part of the Defra-funded research project SP1010, included modifications to certain exposure assumptions documented within EA Science Report SC050221/SR3 (herein after referred to as SR3)⁽⁵⁾ used in the generation of SGVs.

C4SL were published for six substances (cadmium, arsenic, benzene, benzo(a)pyrene, chromium VI and lead) for a sandy loam soil type with 6% soil organic matter, based on a low level of toxicological concern (LLTC; see Section 2.3 of research project report SP1010⁽³⁾). Where a C4SL has been published, the RSK GAC duplicates the C4SL published values using all input parameters within the SP1010 final project report⁽³⁾ and associated appendices⁽⁶⁾, and adopts them as GAC for these six substances.

For all other substances the C4SL exposure modifications, with the exception of the "top two" produce type approach taken in the C4SL, have been applied to the current RSK GAC. These include alterations to daily inhalation rates for residential and commercial scenarios, reducing soil adherence factors in children (age classes 1 to 12 only) for residential land use, reducing exposure frequency for dermal contact outdoors for residential land use, and updated produce type consumption rates (90th percentile) based on recent data from the National Diet and Nutrition Survey.

The RSK GAC have also been revised with updated toxicology published by LQM/CIEH in 2015⁽⁷⁾ or by the USEPA⁽¹⁴⁾, where a C4SL has not been published.

RSK GAC derivation for metals and organic compounds

Model selection

Soil assessment criteria (SAC) were calculated using the Contaminated Land Exposure Assessment (CLEA) tool v1.071, supporting EA guidance^(5,8,9) and revised exposure scenarios published for the C4SL⁽³⁾. Groundwater assessment criteria (GrAC) protective of human health via the inhalation pathway were derived using the RBCA 2.51 model with the Johnson and Ettinger model for soil and groundwater volatilisation. RSK has updated the inputs within RBCA to reflect EA guidance^(1,5,8,9). The SAC and GrAC collectively are termed GAC.

Conceptual model

In accordance with SR3⁽⁵⁾, the residential with home-grown produce scenario considers risks to a female child between the ages of 0 and 6 years old as the highest risk scenario. In accordance

with Box 3.1 of SR3⁽⁵⁾, the pathways considered for production of the SAC in the residential with home-grown produce scenario are

- direct soil and dust ingestion
- consumption of home-grown produce
- consumption of soil attached to home-grown produce
- dermal contact with soil and indoor dust
- inhalation of indoor and outdoor dust and vapours.

Figure 1 is a conceptual model illustrating these linkages.

In line with guidance in the EA SGV report for cadmium⁽¹⁾, the RSK GAC for cadmium has been derived based on estimates representative of lifetime exposure. Although young children are generally more likely to have higher exposures to soil contaminants, the renal toxicity of cadmium, and the derivation of the TDI_{oral} and TDI_{inh} , are based on considerations of the kidney burden accumulated over 50 years or so. It is therefore reasonable to consider exposure not just in childhood but averaged over a longer period.

The pathway considered in production of the GrAC is the volatilisation of compounds from groundwater and subsequent vapour inhalation by residents while indoors. Figure 2 illustrates this linkage. Although the outdoor air inhalation pathway is also valid, this contributes little to the overall risks owing to the dilution in outdoor air. Within RBCA, the solubility limit of the chemical restricts the extent of volatilisation, which in turn drives the indoor air inhalation pathway. While the same restriction is not built into the CLEA model, the CLEA model output cells are flagged red where the soil saturation limit has been exceeded.

With respect to volatilisation, the CLEA model assumes a simple linear partitioning of a chemical in the soil between the sorbed, dissolved and vapour phase⁽⁹⁾. The upper boundaries of this partitioning are represented by the maximum aqueous solubility and pure saturated vapour concentration of the chemical. The CLEA model estimates saturated soil concentrations where these limits are reached⁽⁹⁾. The CLEA software uses a traffic light system to identify when individual and/or combined assessment criteria exceed the lower of either the aqueous- or vapour-based soil saturation limits. Model output cells are flagged red where the saturated soil concentration has been exceeded and the contribution of the indoor and outdoor vapour pathway to total exposure is greater than 10%. In this case, further consideration of the following is required⁽⁹⁾:

- Free phase contamination may be present.
- Exposure from the vapour pathways will be over-predicted by the model, as in reality the vapour phase concentration will not increase at concentrations above saturation limits
- Where the vapour pathway contribution is greater than 90%, it is unlikely the relevant health criteria value (HCV) will be exceeded at soil concentrations at least a factor of ten higher than the relevant HCV.

Where the vapour pathway is the predominant pathway (contributes greater than 90% of exposure) or the only exposure route considered and the cell is highlighted red (SAC exceeds saturation limit), the risk based on the assumed conceptual model is likely to be negligible as the vapour risk is assumed to be tolerable at maximum possible soil concentrations. In such circumstances, the vapour pathway exposure should be considered based on the presence of free phase or non-aqueous phase liquid sources and the measured concentrations of volatile organic compounds (VOC) in the vapour phase. Screening could be considered based on setting

the SAC as the modelled soil saturation limits. However, as stated within the CLEA handbook⁽⁹⁾, this is likely to not be practical in many cases because of the very low saturation limits and, in any case, is highly conservative.

It should also be noted that for mixtures of compounds, free phase may be present where soil (or groundwater) concentrations are well below saturation limits for individual compounds.

Where the vapour pathway is only one of the exposure pathways considered, an additional approach can then be utilised as detailed within Section 4.12 of the CLEA model handbook⁽⁹⁾, which explains how to calculate an effective assessment criterion manually.

SR3⁽⁵⁾ states that, as a general rule of thumb, it is recognised that estimating vapour phase concentrations from dissolved and sorbed phase contamination by petroleum hydrocarbons are at least a factor of ten higher than those likely to be measured on-site. RSK has therefore applied an empirical subsurface to indoor air correction factor of 10 into the CLEA model chemical database and to outputs from the RBCA model for all petroleum hydrocarbon fractions (including BTEX, trimethylbenzenes and the polycyclic aromatic hydrocarbons (PAH) naphthalene, acenaphthene and acenaphthylene) to reduce this conservatism.

Input selection

The most up-to-date published chemical and toxicological data was obtained from EA Report SC050021/SR7⁽¹⁰⁾, the EA TOX⁽¹¹⁾ reports, the C4SL SP1010 project report and associated appendices^(3,6), the 2015 LQM/CIEH report⁽⁷⁾ or the USEPA IRIS database⁽¹⁴⁾. Where a C4SL has been published, the RSK GAC have duplicated the C4SL published values using all input parameters within the SP1010 final project report⁽³⁾ and associated appendices⁽⁶⁾, and has adopted them as GAC for these six substances. Toxicological and specific chemical parameters for aromatic hydrocarbon C₈–C₉ (styrene), 1,2,4-trimethylbenzene and methyl tertiary-butyl ether (MTBE) were obtained from the CL:AIRE Soil Generic Assessment Criteria report⁽¹¹⁾.

For TPH, aromatic hydrocarbons C₅–C₈ were not modelled, as this range comprises benzene and toluene, which are modelled separately. The aromatic C₈–C₉ hydrocarbon fraction comprises ethylbenzene, xylene and styrene. As ethylbenzene and xylene are being modelled separately, the physical, chemical and toxicological data for aromatic C₈–C₉ have been taken from styrene.

For the GrAC, the HCV used in the modelling were derived using the toxicological data for the SAC amended as follows:

- A child weighing 13.3kg (average of 0-6 year old female in accordance with Table 4.6 of SR3⁽⁵⁾) and breathing 8.77m³ (average daily inhalation rate for a 0-6yr old female in accordance with SP1010 final project report for the C4SL (Table 3.2⁽³⁾) and USEPA data⁽¹⁴⁾)
- Background inhalation (mean daily intake (MDI)) for a child (Age Classes 1-6)
- Residential amendments to the MDI for younger age groups following Table 3.4 and Section 3.4.1 of SR2⁽⁸⁾; amended to reflect average daily inhalation rates in accordance with SP1010 final project report for the C4SL (Table 3.2⁽³⁾) and USEPA data⁽¹²⁾.

Physical parameters

For the residential with home-grown produce scenario, the CLEA default building is a small, two-storey terrace house with a concrete ground-bearing slab. The house is assumed to have a 100m² private garden consisting of lawn and flowerbeds, incorporating a 20m² plot for growing fruit and vegetables consumed by the residents. SR3⁽⁵⁾ notes this residential building type to be

the most conservative in terms of potential for vapour intrusion. The building parameters used in the production of the RSK GACs are the default CLEA v1.06 inputs presented in Table 3.3 of SR3⁽³⁾, with a dust loading factor detailed in Section 9.3 of SR3⁽⁵⁾. The parameters for a sandy loam soil type were used in line with Table 4.4 of SR3⁽⁵⁾. This includes a value of 6% for the percentage of soil organic matter (SOM) within the soil. In RSK's experience, this is rather high for many sites. To avoid undertaking site-specific risk assessments for SOM, RSK has produced an additional set of GAC for SOM of 1% and 2.5% for all substances using the CLEA tool.

For the GrAC, the depth to groundwater was taken as 2.5m based on RSK's experience of assessing the volatilisation pathway from groundwater. The GrAC were produced using the input parameters in Table 4.

Summary of modifications to the default CLEA SR3⁽⁵⁾ input parameters for residential with home-grown produce land-use scenario

In summary, the RSK GAC were produced using the default input parameters for soil properties, the air dispersion model, building properties and the vapour model detailed in SR3⁽⁵⁾. Modifications to the default SR3⁽⁵⁾ exposure scenarios based on the C4SL exposure scenarios⁽³⁾ are presented in Tables 2 and 3 below.

The final selected GAC are presented by pathway in Table 5 and the combined GAC in Table 6.

Figure 1: Conceptual model for residential scenario with home-grown produce

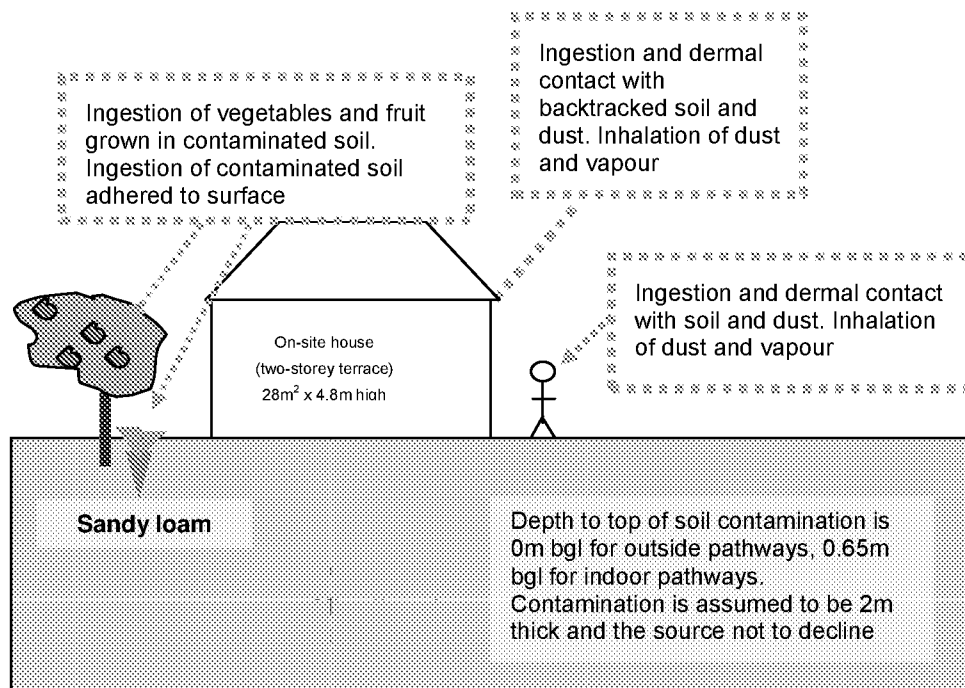


Table 1: Exposure assessment parameters for residential scenario with home-grown produce – inputs for CLEA model

Parameter	Value	Justification
Land use	Residential with homegrown produce	Chosen land use
Receptor	Female child age 1 to 6	Key generic assumption given in Box 3.1, SR3 ⁽⁵⁾
Building	Small terraced house	Key generic assumption given in Box 3.1, SR3. Small, two-storey terraced house chosen, as it is the most conservative residential building type in terms of protection from vapor intrusion (Section 3.4.6, SR3) ⁽⁵⁾
Soil type	Sandy Loam	Most common UK soil type (Section 4.3.1, from Table 3.1, SR3) ⁽⁵⁾
Start AC (age class)	1	Range of age classes corresponding to key generic assumption that the critical receptor is a young female child aged 0–6. From Box 3.1, SR3 ⁽⁵⁾
End AC (age class)	6	
SOM (%)	6	Representative of sandy loamy soil according to EA guidance note dated January 2009 entitled 'Changes We Have Made to the CLEA Framework Documents' ⁽¹³⁾
	1	To provide SAC for sites where SOM <6% as often observed by RSK
	2.5	
pH	7	Model default

Table 2: Residential with home-grown produce – modified home-grown produce data

Name	Consumption rate 90 th percentile (g FW kg ⁻¹ BW day ⁻¹) by age class						Dry weight conversion factor (g DW g ⁻¹ FW)	Home-grown fraction (average)	Home-grown fraction (high end)	Soil loading factor (g g ⁻¹ DW)	Preparation correction factor
	1	2	3	4	5	6					
Green vegetables	7.12	5.87	5.87	5.87	4.53	4.53	0.096	0.05	0.33	1.00E-03	2.00E-01
Root vegetables	10.7	2.83	2.83	2.83	2.14	2.14	0.103	0.06	0.4	1.00E-03	1.00E+00
Tuber vegetables	16	6.6	6.6	6.6	4.95	4.95	0.21	0.02	0.13	1.00E-03	1.00E+00
Herbaceous fruit	1.83	3.39	3.39	3.39	2.24	2.24	0.058	0.06	0.4	1.00E-03	6.00E-01
Shrub fruit	2.23	0.46	0.46	0.46	0.19	0.19	0.166	0.09	0.6	1.00E-03	6.00E-01
Tree fruit	3.82	10.3	10.3	10.3	5.16	5.16	0.157	0.04	0.27	1.00E-03	6.00E-01
Justification	Table 3.4, SP1010 ⁽³⁾						Table 6.3, SR3 ⁽⁵⁾	Table 4.19, SR3 ⁽⁵⁾		Table 6.3, SR3 ⁽⁵⁾	

Table 3: Residential with home-grown produce – modified and use and receptor data

Parameter	Unit	Age class					
		1	2	3	4	5	6
EF (soil and dust ingestion)	day yr ⁻¹	180	365	365	365	365	365
EF (consumption of home-grown produce)	day yr ⁻¹	180	365	365	365	365	365
EF (skin contact, indoor)	day yr ⁻¹	180	365	365	365	365	365
EF (skin contact, outdoor)	day yr ⁻¹	170	170	170	170	170	170
EF (inhalation of dust and vapour, indoor)	day yr ⁻¹	365	365	365	365	365	365
EF (inhalation of dust and vapour, outdoor)	day yr ⁻¹	365	365	365	365	365	365
Justification		Table 3.5, SP1010 ⁽³⁾ ; Table 3.1, SR3 ⁽⁵⁾					
Soil to skin adherence factor (outdoor)	mg cm ⁻² day ⁻¹	0.1	0.1	0.1	0.1	0.1	0.1
Justification		Table 3.5, SP1010 ⁽³⁾					
Inhalation rate	m ³ day ⁻¹	5.4	8.0	8.9/f	10.1	10.1	10.1
Justification		Mean value USEPA, 2011 ⁽¹²⁾ ; Table 3.2, SP1010 ⁽³⁾					
Notes: For cadmium , the exposure assessment for a residential land use is based on estimates representative of lifetime exposure AC1-18. This is because the TDI _{oral} and TDI _{inh} are based on considerations of the kidney burden accumulated over 50 years. It is therefore reasonable to consider exposure not just in childhood but averaged over a longer period. See the Environment Agency Science Report SC05002/ TOX 3 ⁽¹⁾ , Science Report SC050021/Cadmium SGV ⁽¹⁾ and the project report SP1010 ⁽³⁾ for more information.							

Figure 2: GrAC conceptual model for RBCA residential with home-grown produce scenario

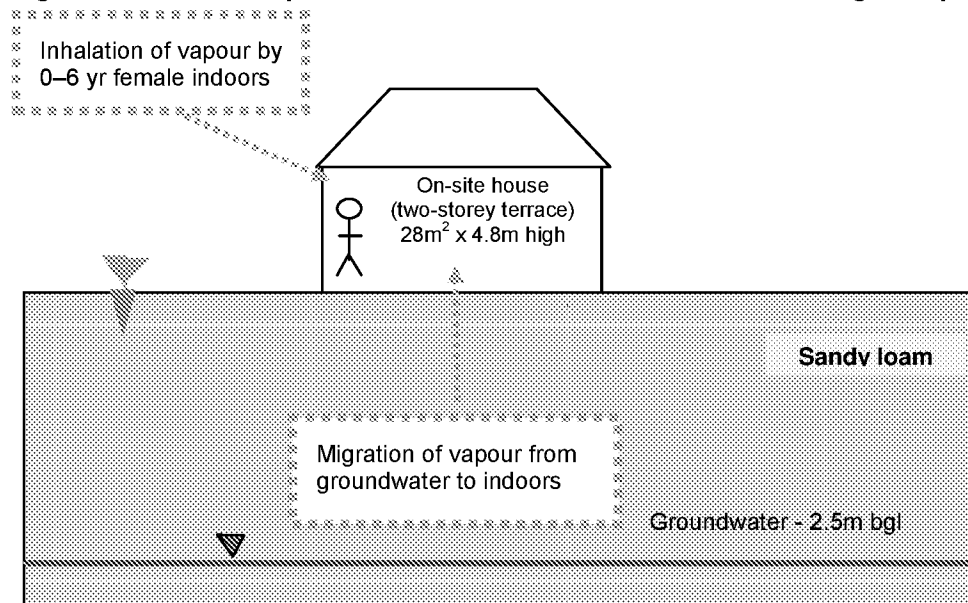


Table 4: Residential with home-grown produce – RBCA inputs

Parameter	Unit	Value	Justification
Receptor			
Averaging time	Years	6	From Box 3.1, SR3 ⁽⁵⁾
Receptor weight	kg	13.3	Average of CLEA 0–6 year old female data, Table 4.6, SR3 ⁽⁵⁾
Exposure duration	Years	6	From Box 3.1, report, SR3 ⁽⁵⁾
Exposure frequency	Days/yr	350	Weighted using occupancy period of 23 hours per day for 365 days of the year
Soil type – sandy loam			
Total porosity	-	0.53	CLEA value for sandy loam. Parameters for sandy loam from Table 4.4, SR3 ⁽⁵⁾
Volumetric water content	-	0.33	
Volumetric air content	-	0.20	
Dry bulk density	g cm ⁻³ or kg/L	1.21	
Vertical hydraulic conductivity	cm s ⁻¹	3.56E-3	CLEA value for saturated conductivity of sandy loam, Table 4.4, SR3 ⁽⁵⁾ equivalent to 307 cm/day
Vapour permeability	m ²	3.05E-12	Calculated for sandy loam using equations in Appendix 1, SR3 ⁽⁵⁾
Capillary zone thickness	m	0.1	Professional judgement
Fraction organic carbon	%	0.0348	Representative of sandy loam according to EA guidance note dated January 2009 entitled 'Changes We Have Made to the CLEA Framework Documents' ⁽¹³⁾
Building			
Building volume/area ratio	m	4.8	Table 3.3, SR3 ⁽⁵⁾
Foundation area	m ²	28	
Foundation perimeter	m	22	Calculated assuming building measures 7m x 4m to give 28m ² foundation area
Building air exchange rate	d ⁻¹	12	Table 3.3, SR3 ⁽⁵⁾ Building air exchange rate equivalent to 1.4E-04 s ⁻¹
Depth to bottom of foundation slab	m	0.15	
Foundation thickness	m	0.15	
Foundation crack fraction	-	0.0151	Calculated from floor crack area of 423 cm ² and building footprint of 28m ² in Table 4.21, SR3 ⁽⁵⁾
Volumetric water content of cracks	-	0.33	Assumed equal to underlying soil type in assumption that cracks become filled with soil over time. Parameters for sandy loam from Table 4.4, SR3 ⁽⁵⁾
Volumetric air content of cracks	-	0.2	
Indoor/outdoor differential pressure	Pa	3.1	From Table 3.3, SR3 ⁽⁵⁾ Equivalent to 31 g/cm/s ²

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GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - RESIDENTIAL WITH HOME-GROWN PRODUCE



Table 5

Human Health Generic Assessment Criteria by Pathway for Residential With Home-Grown Produce Scenario

Compound	Notes	GrAC (µg/l)	SAC Appropriate to Pathway SOM 1% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 2.5% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 6% (mg/kg)			Soil Saturation Limit (mg/kg)
			Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Metals														
Arsenic	(a,b)	-	3.71E-01	5.26E-02	NR	NR	3.71E-01	5.26E-02	NR	NR	3.71E-01	5.26E-02	NR	NR
Cadmium	(a)	-	2.30E-01	4.89E-02	2.21E-01	NR	2.30E-01	4.89E-02	2.21E-01	NR	2.30E-01	4.89E-02	2.21E-01	NR
Chromium (III) - trivalent	(c)	-	1.84E-04	9.07E-02	NR	NR	1.84E-04	9.07E-02	NR	NR	1.84E-04	9.07E-02	NR	NR
Chromium (VI) - hexavalent	(a,d)	-	5.85E-01	2.09E-01	NR	NR	5.85E-01	2.09E-01	NR	NR	5.85E-01	2.09E-01	NR	NR
Copper	-	-	2.72E-03	1.41E-04	2.47E-03	NR	2.72E-03	1.41E-04	2.47E-03	NR	2.72E-03	1.41E-04	2.47E-03	NR
Lead	(a)	-	2.01E-02	NR	NR	NR	2.01E-02	NR	NR	NR	2.01E-02	NR	NR	NR
Elemental Mercury (Hg ⁰)	(d)	1.29E+01	NR	3.86E-01	NR	4.31E+00	NR	5.60E-01	NR	1.07E+01	NR	1.29E+00	NR	2.58E+01
Inorganic Mercury (Hg ²⁺)	-	-	3.99E-01	5.53E-03	3.91E-01	NR	3.99E-01	5.53E-03	3.91E-01	NR	3.99E-01	5.53E-03	3.91E-01	NR
Methyl Mercury (Hg ⁺)	-	2.22E-04	1.26E-01	1.87E-01	7.92E-00	7.33E+01	1.26E-01	5.62E-01	9.34E-00	1.42E+02	1.26E-01	7.86E-01	1.06E-01	3.04E+02
Nickel	(d)	-	1.27E-02	1.81E-02	NR	NR	1.27E-02	1.81E-02	NR	NR	1.27E-02	1.81E-02	NR	NR
Selenium	(b)	-	2.98E-02	NR	NR	NR	2.98E-02	NR	NR	NR	2.98E-02	NR	NR	NR
Zinc	(b)	-	3.86E-03	5.63E-07	NR	NR	3.86E-03	2.63E-07	NR	NR	3.86E-03	5.63E-07	NR	NR
Cyanide (free)	-	-	1.37E-00	1.87E-04	1.37E-00	NR	1.37E-00	1.87E-04	1.37E-00	NR	1.37E-00	1.87E-04	1.37E-00	NR
Volatile Organic Compounds														
Benzene	(a)	2.50E+04	2.62E-01	9.04E-01	2.89E-01	1.22E+03	3.28E-01	1.68E+00	4.98E-01	2.26E+03	1.16E+00	3.49E+00	2.73E-01	4.71E+03
Toluene	-	5.90E+05	1.33E-02	9.08E-02	1.31E-02	8.89E+02	5.43E-03	2.00E-03	2.37E-02	1.92E+03	7.36E-02	4.55E-03	6.77E-02	4.36E+03
Ethylbenzene	-	1.25E+05	1.10E-02	8.54E-01	4.74E-01	5.18E+02	2.61E-02	1.96E-02	1.18E-02	1.22E+03	6.00E-02	4.59E-02	2.80E-02	2.84E+03
Xylene - m	-	1.16E+05	2.10E-02	6.25E-01	5.82E-01	6.25E+02	5.01E-02	1.25E-02	1.45E-02	1.47E+03	1.19E-01	4.59E-02	3.27E-02	3.46E+03
Xylene - o	-	1.41E+05	1.32E-02	5.67E-01	6.07E-01	4.78E+02	4.95E-02	2.06E-02	1.43E-02	1.12E+03	1.05E-03	4.86E-02	2.58E-02	2.62E+03
Xylene - p	-	1.21E+05	1.56E-02	7.83E-01	5.86E-01	5.76E+02	4.70E-02	1.89E-02	1.33E-02	1.35E+03	1.08E-03	4.39E-02	2.10E-02	3.17E+03
Total xylene	-	1.16E+05	1.88E-02	7.83E-01	5.86E-01	6.25E+02	4.58E-02	1.69E-02	1.43E-02	1.47E+03	1.05E-03	4.39E-02	2.10E-02	3.46E+03
Methyl tertiary Butyl ether (MTBE)	-	9.32E+08	1.54E-02	1.04E-03	1.24E-02	2.04E+04	2.87E-02	1.89E-03	2.38E-02	3.31E+04	6.03E-02	3.21E-03	3.09E-02	6.27E+04
Trichloroethene	-	6.44E+01	2.83E-01	1.72E-02	1.82E-02	1.54E+03	6.29E-01	3.53E-02	3.40E-02	3.22E+03	1.41E+00	7.88E-02	7.53E-02	7.14E+03
Tetrachloroethene	-	4.08E+02	4.49E-00	1.79E-01	1.75E-01	4.24E+02	1.04E-01	4.63E-01	3.34E-01	9.51E+02	2.28E-01	3.21E-01	3.04E-01	2.18E+03
1,1,1-Trichloroethene	-	3.59E+04	3.29E-03	9.03E-00	8.77E-00	1.43E+03	7.28E-02	1.84E-01	1.80E-01	2.92E+03	1.38E-03	4.04E-01	3.34E-01	6.39E+03
1,1,1,2-Tetrachloroethane	-	2.84E+03	3.89E-00	1.54E-00	1.20E-00	2.60E+03	1.27E-01	2.59E-00	2.75E-00	6.02E+03	3.32E-01	5.29E-00	6.40E-00	1.40E+04
1,1,2,2-Tetrachloroethane	-	1.85E+04	2.81E-00	3.82E-00	1.94E-00	2.87E+03	5.10E-00	2.04E-00	3.47E-00	5.46E+03	1.36E-01	1.76E-01	1.57E-00	1.20E+04
Carbon Tetrachloride	-	6.10E+01	3.19E-00	2.59E-00	2.57E-02	1.52E+03	7.11E-00	2.69E-02	5.82E-02	3.32E+03	1.62E-01	1.22E-01	1.27E-01	7.54E+03
1,2-Dichloroethane	-	9.70E+01	3.17E-02	6.20E-03	7.13E-03	3.41E+03	5.73E-02	1.83E-02	1.06E-02	4.91E+03	1.08E-01	2.28E-02	1.68E-02	8.43E+03
Vinyl Chloride	-	6.20E+00	3.82E-05	7.73E-04	6.48E-04	1.36E+03	3.83E-03	1.80E-03	5.79E-04	1.76E+03	1.25E-02	1.33E-03	1.36E-03	2.69E+03
1,2,4-Trimethylbenzene	-	5.10E+03	NR	1.78E+00	NR	4.74E+02	NR	4.28E+00	NR	1.16E+03	NR	3.72E+00	NR	2.76E+03
1,3,5-Trimethylbenzene	(e)	-	NR	NR	NR	2.30E+02	NR	NR	NR	5.52E+02	NR	NR	NR	1.30E+03
Semi-Volatile Organic Compounds														
Acenaphthene	-	4.11E+03	2.27E-02	4.86E-04	2.86E-02	5.70E+01	5.41E-02	1.18E-05	5.38E-02	1.41E+02	1.18E-03	2.86E-05	1.17E-03	3.36E+02
Acenaphthylene	-	7.95E+03	1.95E-02	4.59E-04	1.84E-02	8.61E+01	4.48E-02	1.11E-05	4.40E-02	2.12E+02	9.78E-02	2.53E-05	9.74E-02	5.06E+02
Anthracene	-	-	2.43E-03	1.59E-05	2.39E-03	1.17E+00	5.59E-03	3.77E-05	5.45E-03	2.91E+00	1.10E-04	8.78E-05	1.09E-04	6.96E+00
Benzo(a)anthracene	-	-	1.01E-01	2.47E-01	7.18E+00	1.71E+00	1.42E-01	4.27E-01	1.07E-01	4.28E+00	1.69E-01	5.26E-01	1.33E-01	1.03E+01
Benzo(b)fluoranthene	-	-	2.96E+00	1.93E-01	2.56E+00	1.22E+00	5.89E+00	2.13E-01	3.29E+00	3.04E+00	4.43E+00	2.22E-01	3.89E+00	7.29E+00
Benzo(g,h,i)perylene	-	-	3.77E-02	1.87E-02	3.14E-02	1.54E-02	4.09E-02	1.94E-03	3.86E-02	3.85E-02	4.23E-02	1.97E-03	3.48E-02	9.23E-02
Benzo(k)fluoranthene	-	-	8.92E-01	5.41E-02	7.86E-01	6.87E-01	1.10E-02	5.79E-02	9.22E-01	1.72E+00	1.21E+02	5.91E-02	1.00E+02	4.12E+00
Chrysene	-	-	1.86E-01	1.19E-02	1.46E-01	4.40E-01	2.54E-01	1.49E-02	2.17E-01	1.10E+00	3.12E-01	1.60E-02	2.67E-01	2.64E+00
Dibenz(a,h)anthracene	-	-	2.90E-01	1.45E-00	2.41E-01	3.93E-03	3.43E-01	1.64E+00	2.64E-01	9.82E-03	3.89E-01	1.74E+00	3.04E-01	2.36E-02
Fluoranthene	-	-	2.67E-02	3.83E-04	2.25E+02	1.89E+01	5.83E-02	8.37E-04	5.80E-02	4.73E+01	9.00E-02	1.83E+05	8.96E-02	1.13E+02
Fluorene	-	-	1.77E-02	6.20E-03	1.72E-02	3.09E+01	4.18E-02	1.53E-04	4.07E-02	7.65E+01	6.88E-02	3.82E-04	8.77E-02	1.83E+02
Indeno(1,2,3-cd)pyrene	-	-	3.09E-01	2.12E-02	2.70E-01	6.13E-02	4.22E-01	2.38E-02	3.59E-01	1.53E+01	4.93E-01	2.50E-02	4.11E-01	3.68E-01
Phenanthrene	-	-	9.85E-01	7.17E-03	9.72E-01	3.60E+01	2.24E-02	1.76E-04	2.22E-02	8.96E+01	4.48E+02	4.07E-04	4.43E+02	2.14E+02
Pyrene	-	-	6.25E+02	6.79E-04	6.80E-02	2.20E+00	1.25E-03	2.04E-05	1.24E-03	5.49E+00	2.05E-03	4.23E-05	2.04E+03	1.32E+01
Benzo(a)pyrene	(a)	-	4.96E-00	3.91E-01	NR	9.11E-01	4.96E-00	3.77E-01	NR	2.28E+00	4.96E-00	3.89E-01	NR	5.46E+00
Naphthalene	-	1.90E+04	3.79E-01	2.29E-01	1.27E-01	7.64E+01	5.68E-01	2.68E-01	3.04E-01	1.83E+02	1.53E-02	1.31E-02	7.06E-02	4.32E+02
Phenol	-	-	1.86E-02	4.58E-02	1.29E-02	2.42E+04	2.89E-02	6.96E-02	2.89E-02	3.81E+04	5.89E-02	1.19E-02	5.32E-02	7.03E+04

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - RESIDENTIAL WITH HOME-GROWN PRODUCE



Table 5
Human Health Generic Assessment Criteria by Pathway for Residential With Home-Grown Produce Scenario

Compound	Notes	GrAC (µg/l)	SAC Appropriate to Pathway SOM 1% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 2.5% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 6% (mg/kg)			Soil Saturation Limit (mg/kg)
			Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Total Petroleum Hydrocarbons														
Aliphatic hydrocarbons >EC ₉ -EC ₈		2.05E+04	4.99E+03	4.24E+01	4.28E+01	3.04E+02	1.13E+04	7.79E+01	7.78E+01	5.58E+02	2.50E+04	1.81E+02	1.80E+02	1.15E+03
Aliphatic hydrocarbons >EC ₉ -EC ₈		5.37E+03	1.49E+04	1.04E+02	1.03E+02	1.44E+02	3.43E+04	2.31E+02	2.31E+02	3.22E+02	7.11E+04	5.29E+02	5.29E+02	7.36E+02
Aliphatic hydrocarbons >EC ₉ -EC ₁₀		4.27E+02	1.61E+03	2.69E+01	2.67E+01	7.77E+01	2.91E+03	6.59E+01	6.51E+01	1.90E+02	4.26E+03	1.59E+02	1.54E+02	4.51E+02
Aliphatic hydrocarbons >EC ₁₀ -EC ₁₁		3.39E+01	4.57E+03	1.33E+02	1.32E+02	4.75E+01	5.51E+03	3.31E+02	3.26E+02	1.18E+02	5.98E+03	7.93E+02	7.65E+02	2.83E+02
Aliphatic hydrocarbons >EC ₁₁ -EC ₁₆		7.59E+01	6.27E+03	1.11E+03	1.06E+03	2.37E+01	6.34E+03	2.78E+03	2.41E+03	5.91E+01	6.36E+03	6.67E+03	4.34E+03	1.42E+02
Aliphatic hydrocarbons >EC ₁₈ -EC ₃₅	(b)	-	6.46E+04	NR	NR	8.48E+00	9.17E+04	NR	NR	2.12E+01	1.10E+05	NR	NR	5.09E+01
Aliphatic hydrocarbons >EC ₃₅ -EC ₄₄	(b)	-	6.46E+04	NR	NR	8.48E+00	9.17E+04	NR	NR	2.12E+01	1.10E+05	NR	NR	5.09E+01
Aromatic hydrocarbons >EC ₉ -EC ₃ (styrene)		2.90E+05	1.09E+01	5.25E+02	1.89E+01	6.26E+02	2.93E+01	1.36E+03	2.49E+01	1.44E+03	5.61E+01	2.79E+03	5.69E+01	3.35E+03
Aromatic hydrocarbons >EC ₉ -EC ₁₀		2.60E+04	5.76E+01	4.74E+01	5.45E+01	6.13E+02	1.39E+02	1.19E+02	8.36E+01	1.50E+03	3.07E+02	2.77E+02	1.94E+02	3.58E+02
Aromatic hydrocarbons >EC ₁₀ -EC ₁₂		2.45E+04	8.89E+01	2.58E+06	7.52E+01	3.64E+02	1.98E+06	6.49E+02	1.79E+02	8.99E+02	4.25E+02	1.68E+03	3.81E+02	2.15E+03
Aromatic hydrocarbons >EC ₁₂ -EC ₁₃		5.75E+03	1.47E+02	2.85E+03	1.45E+02	1.69E+02	3.96E+02	7.07E+03	3.96E+02	4.19E+02	6.81E+02	1.66E+04	6.74E+02	1.00E+03
Aromatic hydrocarbons >EC ₁₃ -EC ₂₁	(b)	-	2.69E+02	NR	NR	5.37E+01	5.45E+02	NR	NR	1.34E+02	3.34E+02	NR	NR	3.21E+02
Aromatic hydrocarbons >EC ₂₁ -EC ₂₂	(b)	-	1.09E+03	NR	NR	4.83E+00	1.47E+02	NR	NR	1.21E+01	1.70E+03	NR	NR	2.90E+01
Aromatic hydrocarbons >EC ₂₂ -EC ₄₄	(b)	-	1.09E+03	NR	NR	4.83E+00	1.47E+02	NR	NR	1.21E+01	1.70E+03	NR	NR	2.90E+01

Notes:

EC - equivalent carbon. GrAC - groundwater assessment criteria. SAC - soil assessment criteria.
The CLEA model output is colour coded depending upon whether the soil saturation limit has been exceeded.

Calculated SAC exceeds soil saturation limit and may significantly effect the interpretation of any exceedances since the contribution of the indoor and outdoor vapour pathway to total exposure is >10%. This shading has also been used for the RSCA output where the theoretical solubility limit has been exceeded.
Calculated SAC exceeds soil saturation limit but will not effect the SSV significantly since the contribution of the indoor and outdoor vapour pathway to total exposure is <10%.
Calculated SAC does not exceed the soil saturation limit.

For consistency where the theoretical solubility limit within RSCA has been exceeded in production of the GrAC, these cells have also been hatched red.

The SAC for organic compounds are dependent upon soil organic matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58. 1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.
SAC for TPH fractions, PAHs naphthalene, acenaphthene and acenaphthylene, MTBE, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway (Section 10.1.1, SR3)
(a) SAC for arsenic, benzerie, benzo(a)pyrene, cadmium, chromium VI and lead are derived using the C4SL toxicology data.
(b) SAC for selenium should not include the inhalation pathway as no expert group HCV has been derived; aliphatic and aromatic hydrocarbons >EC16 should not include inhalation pathway due to their non-volatile nature and inhalation exposure being minimal (oral, dermal and inhalation exposure is compared to the oral HCV); arsenic should only be based on oral contribution (rather than combined) owing to the relative small contribution from inhalation in accordance with the SGV report. The Oral SAC should be adopted for zinc and benzo(a)pyrene.
(c) SAC for CrIII should be based on the lower of the oral and inhalation SAC (see LQM/CIEH 2015 Section 6.8)
(d) SAC for elemental mercury, chromium VI and nickel should be based on the inhalation pathway only.
(e) SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4-trimethylbenzene may be used.

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - RESIDENTIAL WITH HOME-GROWN PRODUCE



Table 6
Human Health Generic Assessment Criteria for Residential with home-grown produce

Compound	GrAC for Groundwater (µg/l)	SAC for Soil SOM 1% (mg/kg)	SAC for Soil SOM 2.5% (mg/kg)	SAC for Soil SOM 6% (mg/kg)
Metals				
Arsenic	-	37	37	37
Cadmium	-	22	22	22
Chromium (III) - trivalent	-	910	910	910
Chromium (VI) - hexavalent	-	21	21	21
Copper	-	2,500	2,500	2,500
Lead	-	200	200	200
Elemental Mercury (Hg ⁰)	12.90	0.2	0.6	1.2
Inorganic Mercury (Hg ²⁺)	-	39	39	39
Methyl Mercury (Hg ⁴⁺)	22180	10	10	10
Nickel	-	130	130	130
Selenium	-	258	258	258
Zinc	-	3,900	3,900	3,900
Cyanide (free)	-	1.4	1.4	1.4
Volatile Organic Compounds				
Benzene	23000	0.20	0.41	0.87
Toluene	590000	130	300	680
Ethylbenzene	124600	50	110	260
Xylene - m	115900	59	140	327
Xylene - o	141400	61	143	332
Xylene - p	121100	57	133	310
Total xylene	115900	57	133	310
Methyl tertiary-Butyl ether (MTBE)	9320000	130	250	510
Trichloroethene	64	0.02	0.03	0.08
Tetrachloroethene	408	0.2	0.4	0.9
1,1,1-Trichloroethane	35900	9	18	39
1,1,1,2-Tetrachloroethane	2800	1.2	2.8	6.5
1,1,2,2-Tetrachloroethane	18500	1.6	3.5	7.7
Carbon Tetrachloride	61	0.026	0.056	0.127
1,2-Dichloroethane	97	0.007	0.011	0.019
Vinyl Chloride	6	0.0006	0.0009	0.0014
1,2,4-Trimethylbenzene	5095	1.8	4.3	9.7
1,3,5-Trimethylbenzene	-	NR	NR	NR
Semi-Volatile Organic Compounds				
Acenaphthene	4110	230	540	1,170
Acenaphthylene	7950	180	440	970
Anthracene	-	2,400	5,500	10,900
Benzo(a)anthracene	-	7	11	13
Benzo(b)fluoranthene	-	2.6	3.3	3.7
Benzo(g,h,i)perylene	-	310	340	350
Benzo(k)fluoranthene	-	77	92	100
Chrysene	-	15	22	27
Dibenzo(a,h)anthracene	-	0.24	0.28	0.30
Fluoranthene	-	290	560	900
Fluorene	-	170	410	880
Indeno(1,2,3-cd)pyrene	-	27	36	41
Phenanthrene	-	100	220	440
Pyrene	-	620	1,240	2,040
Benzo(a)pyrene	-	5	5	5
Naphthalene	19000	13	30	71
Phenol	-	120	210	390
Total Petroleum Hydrocarbons				
Aliphatic hydrocarbons EC ₅ -EC ₈	20000	42	78	160
Aliphatic hydrocarbons >EC ₈ -EC ₈	5370	100	230	530
Aliphatic hydrocarbons >EC ₈ -EC ₁₀	427	27	65	154
Aliphatic hydrocarbons >EC ₁₀ -EC ₁₂	33.9	130 (48)	330 (118)	760 (283)
Aliphatic hydrocarbons >EC ₁₂ -EC ₁₆	0.759	1,100 (24)	2,400 (59)	4,300 (142)
Aliphatic hydrocarbons >EC ₁₆ -EC ₃₅	-	65,000 (8)	92,000 (21)	110,000
Aliphatic hydrocarbons >EC ₃₅ -EC ₄₄	-	65,000 (8)	92,000 (21)	110,000
Aromatic hydrocarbons >EC ₈ -EC ₉ (styrene)	290000	11	25	57
Aromatic hydrocarbons >EC ₉ -EC ₁₀	20000	30	80	190
Aromatic hydrocarbons >EC ₁₀ -EC ₁₂	24500	80	180	390
Aromatic hydrocarbons >EC ₁₂ -EC ₁₆	5750	140	330	670
Aromatic hydrocarbons >EC ₁₆ -EC ₂₁	-	260	540	930
Aromatic hydrocarbons >EC ₂₁ -EC ₃₅	-	1,100	1,500	1,700
Aromatic hydrocarbons >EC ₃₅ -EC ₄₄	-	1,100	1,500	1,700
Minerals				
Asbestos	-	No asbestos detected with ID or <0.001% dry weight ¹		

Notes:

¹ Generic assessment criteria not calculated owing to low volatility of substance and therefore no pathway, or an absence of toxicological data.

NR - SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4-trimethylbenzene may be used

EC - equivalent carbon, GrAC - groundwater assessment criteria, SAC - soil assessment criteria.

¹ LOD for weight of asbestos per unit weight of soil calculated on a dry weight basis using PLM, handpicking and gravimetry.

The SAC for organic compounds are dependent on Soil Organic Matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58.

1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.

SAC and GrAC for TPH fractions, PAHs naphthalene, acenaphthene and acenaphthylene, MTBE, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway, section 10.1.1, SR3.

(VALUE IN BRACKETS)

The SAC has been set as the model calculated SAC with the saturation limit shown in brackets.

RSK has adopted an approach for petroleum hydrocarbons in accordance with LQM/CIEH whereby the concentration modelled for each petroleum hydrocarbon fraction has been tabulated as the SAC with the corresponding solubility or vapour saturation limits given in brackets.

For consistency where the GrAC exceeds the solubility limit, GrAC has been set at the solubility limit. The GrAC is conservative since concentrations of the chemical are very unlikely to be at sufficient concentration to result in an exceedance of the health criteria value at the point of exposure (i.e. indoor air) provided free-phase product is absent.

GENERIC ASSESSMENT CRITERIA FOR PHYTOTOXIC EFFECTS

Several compounds can inhibit plant growth; hence it is important to have generic assessment criteria (GAC) to promote healthy plant growth. In the absence of other published GAC, the GAC have been obtained from legislation (UK and European) and guidance related to the use of sewage sludge on agricultural fields.

The Council of European Communities Sewage Sludge Directive (86/278/EEC) dated 1986, has been transposed into UK law by Statutory Instrument No. 1263, The Sludge (use in Agriculture) Regulations 1989 (Public Health England, Wales and Scotland), as ammended in 1990 and The Sludge (use in Agriculture) Regulations (Northern Ireland) SR No, 245, 1990. In addition the Department of Environment (DoE) produced a Code of Practice (CoP) (Updated 2nd Edition) in 2006 which provided guidance on the application of sewage sludge on agricultural land (however the status of this document is unclear as it is on the archive section of the Defra website).

The directive seeks to encourage the use of sewage sludge in agriculture and to regulate its use in such a way as to “**prevent harmful effects on soil, vegetation, animals and man**”. To this end, it prohibits the use of untreated sludge on agricultural land unless it is injected or incorporated into the soil. Treated sludge is defined as having undergone "biological, chemical or heat treatment, long-term storage or any other appropriate process so as significantly to reduce its fermentability and the health hazards resulting from its use". To provide protection against potential health risks from residual pathogens, sludge must not be applied to soil in which fruit and vegetable crops are growing, or less than ten months before fruit and vegetable crops are to be harvested. Grazing animals must not be allowed access to grassland or forage land less than three weeks after the application of sludge.

The specified limits of concentrations of selected elements in soil are presented in Table 4 of the updated 2nd Edition of the DoE Code of Practice and are designed to protect plant growth. It is noted that these values are more stringent than the values set in current UK regulations. However since they were ammended following recommendations from the Independent Scientific Committee in 1993. (MAFF/DOE 1993). The GAC are presented in Table 1.

Table 1: Generic assessment criteria

Determinant	Generic assessment criteria (mg/kg)			
	pH 5.0 < 5.5	pH 5.5 < 6.0	pH 6.0 < 7.0	pH >7.0
Zinc	200	200	200	300
Copper	80	100	135	200
Nickel	50	60	75	110
Lead	300	300	300	300
Cadmium	3	3	3	3
Mercury	1	1	1	1
Note: Only compounds with assessment criteria documented within the Directive 86/278/EEC have been included, although criteria for 5 additional compounds have been presented within the 2006 CoP				