

Your Ref:
Our Ref: CRM.1265.013.GE.L.009

Date: 3rd January 2023
Email: Richard.Reece@enzygo.com

Jack Johnson,
Pacific House
Imperial Way
Reading
Berkshire
RG2 0TD

By Email: Jack.Johnson@bellway.co.uk

Dear Jack,

RE: Former Cox & Wyman Site, Cardiff Road, Reading, RG1 8EX, Plots 23 & 24 - Topsoil Validation

Introduction

Enzygo Geo Environmental Limited undertook an investigation for a proposed development at the above-named site. The site investigation encountered elevated levels of Lead, TPH and PAH, within the Made Ground. Asbestos was also detected.

As the site is being re-developed for residential apartments with communal garden areas, and houses with private garden areas, remediation to areas of soft landscaping was proposed comprising 400mm clean materials over a Geotextile no-dig barrier within communal garden areas, and 600mm clean materials over a Geotextile no-dig barrier within private garden areas. This was submitted to Reading Borough Council and was approved. During the works, no subsequent site observations indicated any change was required.

Site Inspection

On the 25th January 2023 Enzygo Geo Environmental Limited undertook a site visit to excavate and confirm the presence of 600mm of cover materials, over a Geotextile no-dig barrier. One inspection pit (HP6) was excavated within the rear garden of Plot 23. Photos of the Hand Pit are shown in Appendix A. The location of the Hand Pit is shown on Drawing CRM.1265.013.GE.D.002.B, which is included in Appendix B.

No further areas of contamination were identified during the construction phase or during the validation inspection, therefore no additional remedial measures were required or undertaken.

Cover Soils

The Hand Pit confirmed the presence of more than 600mm of cover soils over a Geotextile no-dig barrier, meeting the required depth for Private Rear Gardens. Photographs of the Hand Pit are included in Appendix A.

Samples were recovered from the Hand Pit and submitted to the laboratories of I2 who are UKAS and MCERTS accredited for testing. Soil samples were collected in appropriate containers provided by the analytical laboratory. Samples were stored in cool boxes prior to dispatch to the laboratory for analysis. All samples were collected using appropriate sampling equipment that is cleaned at each sampling location.

Chemical Analysis

As materials were imported from a donor site under the approved Materials Management Plan, (MMP) chemical analysis reports were obtained from the donor site during the site investigation in June 2016. These show the materials are suitable for use as planting medium and meet the GAC values for residential use with plant uptake. No Asbestos was detected. Chemical analysis reports from the donor site, Keephatch Beech, are shown in Appendix C.

Subsoil for the rear garden areas were obtained from the donor site Keephatch Beech, in accordance with the approved MMP. Soil transfer tickets are shown in Appendix D.

Topsoil chemical analysis was provided by the topsoil supplier. The certificate shows that the soils are suitable for residential use with plant uptake. A copy is shown in Appendix E.

Soil samples recovered from the Hand Pit were sent to the laboratories of I2 who are UKAS and MCERTS accredited. Samples were tested for the CLEA metal suite, pH, sulphate, cyanide, speciated Polycyclic Aromatic Hydrocarbons (PAH), organic carbon, Speciated Total Petroleum Hydrocarbon, and Asbestos screen.

Results show the materials used meet the GAC values for residential use with plant uptake. These are shown in Appendix F.

Disposal tickets for muck away materials have been provided and are shown in Appendix G.

Conclusion

Based on the site inspection undertaken, information provided and results it is considered that the remediation works are in accordance with the approved remedial methodology within the rear garden areas of Plots 23 & 24.

This verification letter has been prepared following validation works to address requirements of planning condition 18 of Planning Consent 171814 Application ref 18123.

We hope that we have correctly interpreted your requirements.

Yours sincerely,
For and on behalf of Enzygo



Richard Reece
Environmental Consultant

APPENDICES

APPENDIX A – PHOTOGRAPHS







APPENDIX B – LOCATION PLAN



Key

- Site Boundary
- Communal Area 400mm
- Garden Area 600mm
- Extent of Gas Membrane Proposed
- Area of Mercury Removed
- Validation Pits (HPA - HPM)

Adding additional Gas Membrane Areas	10/05/19	Rev B
Adding Gas Membrane Area	10/05/19	Rev A

Description	Date	Revision
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enzygo
environmental consultants

Samuel House, 5 Fox Valley Way, Stocksbridge, Sheffield, S36 2AA

CLIENT:
Bellway and Thames Properties

SCALE: **1:500@A3**
PROJECT REF: **CRM.1265.013**

DRAWN: **MG**
CHECKED: **SR**
DATE: **May 2019**

PROJECT:
Cardiff Road, Reading

TITLE:
Remediation Plan

FIGURE NO:
CRM.1265.013.GE.D.002.B

APPENDIX C – KEEPHATCH CHEMICAL TESTING

**Steve Rhodes**

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e: reception@i2analytical.com

Analytical Report Number : 18-80404

Project / Site name:	SDL, Wokingham N Site	Samples received on:	27/03/2018
Your job number:	CRM.1265.003	Samples instructed on:	27/03/2018
Your order number:		Analysis completed by:	03/04/2018
Report Issue Number:	1	Report issued on:	03/04/2018
Samples Analysed:	5 soil samples		

Signed:

Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Analytical Report Number: 18-80404

Project / Site name: SDL, Wokingham N Site

Lab Sample Number				933352	933353	933354	933355	933356
Sample Reference				HP1	HP2	HP3	HP4	HP5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.20	0.20	0.20	0.20
Date Sampled				23/03/2018	23/03/2018	23/03/2018	23/03/2018	23/03/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	18	19	18	19	15
Total mass of sample received	kg	0.001	NONE	1.2	1.2	1.3	1.3	1.3

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.2	6.6	6.8	6.8	7.0
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.3	1.5	1.0	1.3	1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.20	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.38	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.30	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.31	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.26	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	1.45	< 0.80	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.1	7.6	11	5.4	8.6
Boron (water soluble)	mg/kg	0.2	MCERTS	1.0	1.2	0.9	1.0	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	21	22	24	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	10	11	12	12	11
Lead (aqua regia extractable)	mg/kg	1	MCERTS	25	24	22	22	20
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	8.4	8.6	13	7.2	9.8
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	25	23	30	25	24

Analytical Report Number: 18-80404

Project / Site name: SDL, Wokingham N Site

Lab Sample Number				933352	933353	933354	933355	933356
Sample Reference				HP1	HP2	HP3	HP4	HP5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.20	0.20	0.20	0.20
Date Sampled				23/03/2018	23/03/2018	23/03/2018	23/03/2018	23/03/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH (>C5 - C7)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (>C7 - C8)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C8 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C21 - C35)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C35 - C44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C44	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10



Analytical Report Number : 18-80404

Project / Site name: SDL, Wokingham N Site

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
933352	HP1	None Supplied	0.20	Brown clay and loam with vegetation.
933353	HP2	None Supplied	0.20	Brown clay and loam with vegetation.
933354	HP3	None Supplied	0.20	Brown clay and sand with vegetation.
933355	HP4	None Supplied	0.20	Brown clay and sand with vegetation and gravel
933356	HP5	None Supplied	0.20	Brown clay and sand with gravel and vegetation.

Analytical Report Number : 18-80404

Project / Site name: SDL, Wokingham N Site

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests"	L009-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L088/76-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

**Steve Rhodes**

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e: reception@i2analytical.com

Analytical Report Number : 16-35009

Project / Site name:	SDL, Wokingham	Samples received on:	06/12/2016
Your job number:	CRM.1265.003	Samples instructed on:	06/12/2016
Your order number:		Analysis completed by:	13/12/2016
Report Issue Number:	1	Report issued on:	13/12/2016
Samples Analysed:	10 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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Analytical Report Number: 16-35009

Project / Site name: SDL, Wokingham

Lab Sample Number				670738	670739	670740	670741	670742
Sample Reference				TP2	TP6	TP8	TP9	TP10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.20	0.10	0.50	0.30
Date Sampled				02/12/2016	02/12/2016	02/12/2016	02/12/2016	02/12/2016
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	13	17	10	11	16
Total mass of sample received	kg	0.001	NONE	1.1	0.83	1.2	1.0	0.89

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	5.7	10.0	9.8	5.9
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.6	1.3	0.5	0.5	1.2

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.22	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.21	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.16	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.16	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.32	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.32	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.16	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.16	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	1.71	< 1.60
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.5	8.3	9.5	8.1	7.0
Boron (water soluble)	mg/kg	0.2	MCERTS	0.8	0.4	0.8	0.9	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	12	14	10	12	8.9
Copper (aqua regia extractable)	mg/kg	1	MCERTS	12	14	12	12	9.0
Lead (aqua regia extractable)	mg/kg	1	MCERTS	18	33	14	16	24
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.4	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	7.3	5.9	4.9	5.9	3.3
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	35	29	20	25	18

Analytical Report Number: 16-35009

Project / Site name: SDL, Wokingham

Lab Sample Number				670738	670739	670740	670741	670742
Sample Reference				TP2	TP6	TP8	TP9	TP10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.20	0.10	0.50	0.30
Date Sampled				02/12/2016	02/12/2016	02/12/2016	02/12/2016	02/12/2016
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	24	< 10	53	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	28	< 8.4	36	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	25	< 10	61	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	54	< 10	96	< 10	< 10

TPH (C>5 - C7)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C>7 - C8)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C8 - C10)	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	ISO 17025	1.5	< 1.0	6.7	1.0	< 1.0
TPH (C21 - C35)	mg/kg	1	ISO 17025	24	2.7	53	2.8	< 1.0
TPH (C35 - C44)	mg/kg	10	NONE	28	< 10	36	< 10	< 10
TPH Total C5 - C44	mg/kg	10	NONE	54	< 10	96	< 10	< 10

Analytical Report Number: 16-35009

Project / Site name: SDL, Wokingham

Lab Sample Number				670743	670744	670745	670746	670747
Sample Reference				TP11	TP12	TP13	TP14	TP15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.20	0.30	0.20	0.20
Date Sampled				02/12/2016	02/12/2016	02/12/2016	02/12/2016	02/12/2016
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	16	12	17	16	9.7
Total mass of sample received	kg	0.001	NONE	0.81	1.1	0.87	0.89	1.1

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.1	9.5	5.6	5.5	5.5
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.2	0.5	1.5	1.5	0.9

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	< 1.60	< 1.60
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.4	7.5	7.4	7.1	4.8
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	1.0	0.6	0.4	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	11	9.1	16	12	12
Copper (aqua regia extractable)	mg/kg	1	MCERTS	11	12	15	13	8.5
Lead (aqua regia extractable)	mg/kg	1	MCERTS	26	17	35	31	19
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	3.6	4.9	6.2	5.7	4.5
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	22	24	29	27	18

Analytical Report Number: 16-35009

Project / Site name: SDL, Wokingham

Lab Sample Number				670743	670744	670745	670746	670747
Sample Reference				TP11	TP12	TP13	TP14	TP15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.20	0.30	0.20	0.20
Date Sampled				02/12/2016	02/12/2016	02/12/2016	02/12/2016	02/12/2016
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH (C>5 - C7)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C>7 - C8)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C8 - C10)	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C21 - C35)	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C35 - C44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C44	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10



Analytical Report Number : 16-35009

Project / Site name: SDL, Wokingham

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
670738	TP2	None Supplied	0.20	Brown loam and clay with gravel and vegetation.
670739	TP6	None Supplied	0.20	Brown loam and clay with gravel and vegetation.
670740	TP8	None Supplied	0.10	Brown loam and clay with gravel and vegetation.
670741	TP9	None Supplied	0.50	Brown loam and clay with gravel and vegetation.
670742	TP10	None Supplied	0.30	Brown loam and clay with gravel and vegetation.
670743	TP11	None Supplied	0.50	Brown loam and clay with gravel and vegetation.
670744	TP12	None Supplied	0.20	Brown loam and clay with gravel and vegetation.
670745	TP13	None Supplied	0.30	Brown loam and clay with gravel and vegetation.
670746	TP14	None Supplied	0.20	Brown loam and clay with gravel and vegetation.
670747	TP15	None Supplied	0.20	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 16-35009

Project / Site name: SDL, Wokingham

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

**Steve Rhodes**

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Analytical Report Number : 16-35375

Project / Site name:	SDL, Wokingham	Samples received on:	13/12/2016
Your job number:	CRM.1265.003	Samples instructed on:	13/12/2016
Your order number:		Analysis completed by:	19/12/2016
Report Issue Number:	1	Report issued on:	19/12/2016
Samples Analysed:	12 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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Analytical Report Number: 16-35375

Project / Site name: SDL, Wokingham

Lab Sample Number				672963	672964	672965	672966	672967
Sample Reference				WS102	WS103	WS105	WS118	WS119
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	0.60	0.10	0.10	0.20
Date Sampled				05/12/2016	05/12/2016	06/12/2016	07/12/2016	07/12/2016
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	13	13	16	13	11
Total mass of sample received	kg	0.001	NONE	1.1	1.1	1.1	1.2	1.0

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.8	7.3	6.7	6.1	6.7
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.5	0.7	1.0	0.9	0.5

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	2.0	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	0.41	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	4.8	< 0.10	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	4.2	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	2.0	< 0.10	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	2.2	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	2.1	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	1.5	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	1.6	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	0.83	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	0.16	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.99	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	22.7	< 1.60	< 1.60	< 1.60
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.4	8.1	6.5	5.5	5.2
Boron (water soluble)	mg/kg	0.2	MCERTS	0.8	1.1	0.9	0.5	0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24	29	25	14	12
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	14	16	13	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	24	22	27	23	25
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	12	12	5.8	5.2
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	33	39	38	29	25

Analytical Report Number: 16-35375

Project / Site name: SDL, Wokingham

Lab Sample Number				672963	672964	672965	672966	672967
Sample Reference				WS102	WS103	WS105	WS118	WS119
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	0.60	0.10	0.10	0.20
Date Sampled				05/12/2016	05/12/2016	06/12/2016	07/12/2016	07/12/2016
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	1.1	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	2.3	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	14	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	16	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	33	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	33	< 10	< 10	< 10

TPH (C>5 - C7)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C>7 - C8)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C8 - C10)	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	ISO 17025	< 1.0	16	< 1.0	< 1.0	< 1.0
TPH (C21 - C35)	mg/kg	1	ISO 17025	2.3	21	3.3	1.7	< 1.0
TPH (C35 - C44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C44	mg/kg	10	NONE	< 10	33	< 10	< 10	< 10

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Lab Sample Number				672968	672969	672970	672971	672972
Sample Reference				WS120	WS121	WS124	WS132	WS134
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.15	0.15	0.35	0.25	0.25
Date Sampled				07/12/2016	06/12/2016	06/12/2016	07/12/2016	06/12/2016
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	10	19	10	11	12
Total mass of sample received	kg	0.001	NONE	0.93	0.96	1.1	1.0	1.1

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.3	5.6	6.0	5.9	6.4
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.6	1.2	0.1	< 0.1	0.5

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	< 1.60	< 1.60
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.2	6.6	5.3	4.3	6.3
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	0.6	0.4	< 0.2	< 0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	11	22	11	12	16
Copper (aqua regia extractable)	mg/kg	1	MCERTS	9.8	22	11	12	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	20	25	13	8.1	29
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.3	0.3	< 0.3	0.4	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	5.2	11	4.5	4.4	6.8
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	19	35	20	17	28

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Lab Sample Number				672968	672969	672970	672971	672972
Sample Reference				WS120	WS121	WS124	WS132	WS134
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.15	0.15	0.35	0.25	0.25
Date Sampled				07/12/2016	06/12/2016	06/12/2016	07/12/2016	06/12/2016
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH (C>5 - C7)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C>7 - C8)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C8 - C10)	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C21 - C35)	mg/kg	1	ISO 17025	2.5	2.3	< 1.0	< 1.0	< 1.0
TPH (C35 - C44)	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C44	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

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Lab Sample Number				672973	672974			
Sample Reference				TP3	TP4			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.30	0.10			
Date Sampled				02/12/2016	02/12/2016			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1			
Moisture Content	%	N/A	NONE	9.2	11			
Total mass of sample received	kg	0.001	NONE	0.92	0.99			

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected			
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.1	8.6			
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.7	0.4			

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10			
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60			
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	4.9	7.7			
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	0.7			
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2	0.4			
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0			
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	16	15			
Copper (aqua regia extractable)	mg/kg	1	MCERTS	18	31			
Lead (aqua regia extractable)	mg/kg	1	MCERTS	31	34			
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.4			
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	8.7	8.1			
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	32	62			

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Lab Sample Number				672973	672974			
Sample Reference				TP3	TP4			
Sample Number				None Supplied	None Supplied			
Depth (m)				0.30	0.10			
Date Sampled				02/12/2016	02/12/2016			
Time Taken				None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0			
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	2.5			
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0			
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	34			
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	25			
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	42			
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	67			
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1			
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	1.1			
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0			
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10			
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	51			
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	48			
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	59			
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	110			
TPH (C>5 - C7)	mg/kg	1	NONE	< 1.0	< 1.0			
TPH (C>7 - C8)	mg/kg	1	NONE	< 1.0	< 1.0			
TPH (C8 - C10)	mg/kg	0.1	NONE	< 0.1	< 0.1			
TPH (C10 - C12)	mg/kg	2	ISO 17025	< 2.0	< 2.0			
TPH (C12 - C16)	mg/kg	4	ISO 17025	< 4.0	< 4.0			
TPH (C16 - C21)	mg/kg	1	ISO 17025	< 1.0	11			
TPH (C21 - C35)	mg/kg	1	ISO 17025	5.3	85			
TPH (C35 - C44)	mg/kg	10	NONE	< 10	72			
TPH Total C5 - C44	mg/kg	10	NONE	< 10	170			

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* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
672963	WS102	None Supplied	0.40	Brown clay and sand.
672964	WS103	None Supplied	0.60	Brown clay and sand with gravel.
672965	WS105	None Supplied	0.10	Brown loam and clay.
672966	WS118	None Supplied	0.10	Brown loam and clay.
672967	WS119	None Supplied	0.20	Brown loam and clay with gravel.
672968	WS120	None Supplied	0.15	Brown loam and clay with gravel.
672969	WS121	None Supplied	0.15	Brown loam and clay with gravel.
672970	WS124	None Supplied	0.35	Brown loam and clay.
672971	WS132	None Supplied	0.25	Light brown loam and clay.
672972	WS134	None Supplied	0.25	Brown loam and clay with gravel and vegetation.
672973	TP3	None Supplied	0.30	Light brown loam and clay with gravel and vegetation.
672974	TP4	None Supplied	0.10	Brown sandy loam with gravel and vegetation.

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Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 dphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



Steve Rhodes

Enzygo Geoenvironmental Ltd
The Byre
Woodend Lane
Cromhall
Gloucestershire
GL12 8AA

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
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Watford,
Herts,
WD18 8YS

e: steve.rhodes@enzygo.com

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e: reception@i2analytical.com

Analytical Report Number : 16-35452

Project / Site name:	SDL, Wokingham	Samples received on:	14/12/2016
Your job number:	CRM.1265.003	Samples instructed on:	14/12/2016
Your order number:		Analysis completed by:	20/12/2016
Report Issue Number:	1	Report issued on:	20/12/2016
Samples Analysed:	3 soil samples		

Signed:

Rexona Rahman
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Emma Winter
Assistant Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Analytical Report Number: 16-35452

Project / Site name: SDL, Wokingham

Lab Sample Number				673401	673402	673403		
Sample Reference				WS117	WS111	WS113		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.25	0.40	0.10		
Date Sampled				13/12/2016	13/12/2016	13/12/2016		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	10	9.6	16		
Total mass of sample received	kg	0.001	NONE	0.92	0.94	1.3		

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected		
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	5.0	6.6	6.2		
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.6	0.5	0.2		

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05		

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60		
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	9.6	8.1		
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	0.6	0.2		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	8.8	8.0	5.3		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	7.2	6.2		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	27	7.0	5.9		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	2.8	2.9	2.3		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.1	< 1.0	< 1.0		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	27	13	7.0		

Analytical Report Number: 16-35452

Project / Site name: SDL, Wokingham

Lab Sample Number				673401	673402	673403		
Sample Reference				WS117	WS111	WS113		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.25	0.40	0.10		
Date Sampled				13/12/2016	13/12/2016	13/12/2016		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0		
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0		
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0		
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4		
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10		

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0		
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4		
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	< 10		

TPH (C>5 - C7)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
TPH (C>7 - C8)	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
TPH (C8 - C10)	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
TPH (C10 - C12)	mg/kg	2	ISO 17025	< 2.0	< 2.0	< 2.0		
TPH (C12 - C16)	mg/kg	4	ISO 17025	< 4.0	< 4.0	< 4.0		
TPH (C16 - C21)	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH (C21 - C35)	mg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
TPH (C35 - C44)	mg/kg	10	NONE	< 10	< 10	< 10		
TPH Total C5 - C44	mg/kg	10	NONE	< 10	< 10	< 10		

Pesticide and Herbicide Screen

Pesticides/Herbicides Screen in Soil	P/A	N/A	NONE	Absent	Absent	Absent		
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Analytical Report Number : 16-35452

Project / Site name: SDL, Wokingham

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
673401	WS117	None Supplied	0.25	Brown loam and clay with vegetation.
673402	WS111	None Supplied	0.40	Light brown loam and clay.
673403	WS113	None Supplied	0.10	Light brown loam and sand.

Analytical Report Number : 16-35452

Project / Site name: SDL, Wokingham

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

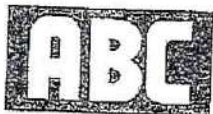
Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Pesticides and Herbicides in soil screening	In-house method	In-house method		W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

APPENDIX D – KEEPHATCH TRANSFER TICKETS



Atlas Bulk Carriers Ltd. Unit 32 Martlands Industrial Estate,
Smarts Heath Lane, Woking, Surrey GU22 0RQ
01932-569222 (4 lines) www.abograbs.co.uk
Registered Waste Carrier No. CBDU84788 VAT No. 527 9581 07 SIC Code: 49.41

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE No. 083703

Customer:	Mostern	Date:	27/10/21
Street Address:	Keel hatch GWS	Vehicle Reg:	W16 NQJ
Town:	Wokingham	Driver's Name:	Tommy

EWC	SIC	Time on Site
☐ 17.01.07 Clean Hardcore (Brick/Concrete)	43.11	
☐ 17.05.04 Soil & Stones (Inert)	43.12	
☐ 17.09.04 Mixed Construction (Rubbish)	43.12	
☐ 20.02.01 Garden/Park Waste (Biodegradable)	42.12	

QUANTITY (As measured by customer) 1 LOAD

Tipper ☒ Grab ☐

WASTE DISPOSAL AUDIT		Tip Code	Tip Tkt. No.
Other Services to Bellway Homes Cardiff Rd RGI			
SALE OF MATERIALS	VOLUME	WEIGHT	TONNES
MATERIAL DESCRIPTION:-		Gross Weight of Vehicle at Weighbridge	.
H/O on T/A		Tare Weight of Vehicle	.
		Nett Weight	.

By signing below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the (England and Wales) Regulations 2012

Signed By Producer/Site	Print Name: SIM
Cash/Cheque Received £	Signed By Driver: [Signature]

All payments to be made to Atlas Bulk Carriers Ltd.
All business undertaken according to our Terms and Conditions, a copy of which is available upon request.
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Atlas Bulk Carriers Ltd. Unit 32 Martlands Industrial Estate,
Smarts Heath Lane, Woking, Surrey GU22 0RQ
01932-569222 (4 lines) www.abograbs.co.uk
Registered Waste Carrier No. CBDU84788 VAT No. 527 9581 07 SIC Code: 49.41

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE No. 083704

Customer:	Mostern	Date:	27/10/21
Street Address:	Keel hatch GWS	Vehicle Reg:	W16 NQJ
Town:	Wokingham	Driver's Name:	Tommy

EWC	SIC	Time on Site
☐ 17.01.07 Clean Hardcore (Brick/Concrete)	43.11	
☐ 17.05.04 Soil & Stones (Inert)	43.12	
☐ 17.09.04 Mixed Construction (Rubbish)	43.12	
☐ 20.02.01 Garden/Park Waste (Biodegradable)	42.12	

QUANTITY (As measured by customer) 1 LOAD

Tipper ☒ Grab ☐

WASTE DISPOSAL AUDIT		Tip Code	Tip Tkt. No.
Other Services to Bellway Homes Cardiff Rd RGI			
SALE OF MATERIALS	VOLUME	WEIGHT	TONNES
MATERIAL DESCRIPTION:-		Gross Weight of Vehicle at Weighbridge	.
H/O on T/A		Tare Weight of Vehicle	.
		Nett Weight	.

By signing below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the (England and Wales) Regulations 2012

Signed By Producer/Site	Print Name: SIM
Cash/Cheque Received £	Signed By Driver: [Signature]

All payments to be made to Atlas Bulk Carriers Ltd.
All business undertaken according to our Terms and Conditions, a copy of which is available upon request.
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Smarts Heath Lane, Woking, Surrey GU22 0RQ
01932-569222 (4 lines) www.abcgrabs.co.uk
Registered Waste Carrier No. CBDU84768 VAT No. 527 9581 07 SIC Code: 49.41

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE No. 083702

Customer:	Moslem	Date:	27/10/21
Street Address:	Keep Hatch Goss	Vehicle Reg:	LN16 NWT
Town:	Wokingham	Driver's Name:	Jonny

- EWC SIC
- ☐ 17.01.07 Clean Hardcore (Brick/Concrete) 43.11
- ☐ 17.05.04 Soil & Stones (Inert) 43.12
- ☐ 17.09.04 Mixed Construction (Rubbish) 43.12
- ☐ 20.02.01 Garden/Park Waste (Biodegradable) 42.12

Time on Site

Time off Site

QUANTITY
(As measured
by customer)

1 LOAD

Tipper ☒

Grab ☐

WASTE DISPOSAL AUDIT		Tip Code	Tip Tkt. No.
Other Services <i>Sale to Cardiff Rd Bellway Homes RG1 8EF</i>			
SALE OF MATERIALS	VOLUME	WEIGHT	TONNES
MATERIAL DESCRIPTION:- <i>H/O 1/A</i>		Gross Weight of Vehicle at Weighbridge	.
		Tare Weight of Vehicle	.
		Nett Weight	.

By signing below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the (England and Wales) Regulations 2012

Signed By Producer/Site <i>W/S</i>	Print Name: <i>SAMUEL</i>
Cash/Cheque Received £	Signed By Driver <i>[Signature]</i>

All payments to be made to Atlas Bulk Carriers Ltd.
All business undertaken according to our Terms and Conditions, a copy of which is available upon request.
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Registered Waste Carrier No. CBDU84768 VAT No. 527 9581 07 SIC Code: 49.41

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE No. 083706

Customer:	Moslem	Date:	27/10/21
Street Address:	Keep Hatch Goss	Vehicle Reg:	
Town:	Wokingham	Driver's Name:	

- EWC SIC
- ☐ 17.01.07 Clean Hardcore (Brick/Concrete) 43.11
- ☐ 17.05.04 Soil & Stones (Inert) 43.12
- ☐ 17.09.04 Mixed Construction (Rubbish) 43.12
- ☐ 20.02.01 Garden/Park Waste (Biodegradable) 42.12

Time on Site

Time off Site

QUANTITY
(As measured
by customer)

1 LOAD

Tipper ☒

Grab ☐

WASTE DISPOSAL AUDIT		Tip Code	Tip Tkt. No.
Other Services <i>Sale to Cardiff Rd Bellway Homes RG1 8EF</i>			
SALE OF MATERIALS	VOLUME	WEIGHT	TONNES
MATERIAL DESCRIPTION:- <i>H/O 1/A</i>		Gross Weight of Vehicle at Weighbridge	.
		Tare Weight of Vehicle	.
		Nett Weight	.

By signing below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the (England and Wales) Regulations 2012

Signed By Producer/Site	Print Name: <i>JIM</i>
Cash/Cheque Received £	Signed By Driver <i>[Signature]</i>

All payments to be made to Atlas Bulk Carriers Ltd.
All business undertaken according to our Terms and Conditions, a copy of which is available upon request.
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Atlas Bulk Carriers Ltd. Unit 32 Marlands Industrial Estate,
Smarts Heath Lane, Woking, Surrey GU22 0RQ
☎ 01932-569222 (4 lines) www.abccrabs.co.uk
Registered Waste Carrier No. CBDU84768 VAT No. 527 9581 07 SIC Code: 49.41

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE No. 083705

Customer:	Masteim	Date:	27/10/21
Street Address:	Keel Hatch Gars	Vehicle Reg:	W16XUOT
Town:	Wokingham	Driver's Name:	Tony

EWC	SIC	Time on Site	Time off Site	QUANTITY (As measured by customer)	Tipper	Grab
☐ 17.01.07 Clean Hardcore (Brick/Concrete)	43.11			1 LOAD	☒	☐
☐ 17.05.04 Soil & Stones (Inert)	43.12				☐	
☐ 17.09.04 Mixed Construction (Rubbish)	43.12				☐	
☐ 20.02.01 Garden/Park Waste (Biodegradable)	42.12				☐	

WASTE DISPOSAL AUDIT	Tip Code	Tip Tkt. No.
Other Services Del to Bellway Homes Cardiff Rd RG1 8EF		
SALE OF MATERIALS	VOLUME	WEIGHT
MATERIAL DESCRIPTION:- H/O 02/12		Gross Weight of Vehicle at Weighbridge
		Tare Weight of Vehicle
		Nett Weight

By signing below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the (England and Wales) Regulations 2012

Signed By Producer/Tipper	Print Name: SIM
Cash/Cheque Received £	Signed By Driver: [Signature]

All payments to be made to Atlas Bulk Carriers Ltd.
All business undertaken according to our Terms and Conditions, a copy of which is available upon request.
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☎ 01932-569222 (4 lines) www.abccrabs.co.uk
Registered Waste Carrier No. CBDU84768 VAT No. 527 9581 07 SIC Code: 49.41

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE No. 083707

Customer:	Masteim	Date:	27/10/21
Street Address:	Keel Hatch Gars	Vehicle Reg:	W16XUOT
Town:	Wokingham	Driver's Name:	Tony

EWC	SIC	Time on Site	Time off Site	QUANTITY (As measured by customer)	Tipper	Grab
☐ 17.01.07 Clean Hardcore (Brick/Concrete)	43.11			1 LOAD	☒	☐
☐ 17.05.04 Soil & Stones (Inert)	43.12				☐	
☐ 17.09.04 Mixed Construction (Rubbish)	43.12				☐	
☐ 20.02.01 Garden/Park Waste (Biodegradable)	42.12				☐	

WASTE DISPOSAL AUDIT	Tip Code	Tip Tkt. No.
Other Services Del to Bellway Homes Cardiff Rd RG1 8EF		
SALE OF MATERIALS	VOLUME	WEIGHT
MATERIAL DESCRIPTION:- H/O 02/12		Gross Weight of Vehicle at Weighbridge
		Tare Weight of Vehicle
		Nett Weight

By signing below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the (England and Wales) Regulations 2012

Signed By Producer/Tipper	Print Name: SIM
Cash/Cheque Received £	Signed By Driver: [Signature]

All payments to be made to Atlas Bulk Carriers Ltd.
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APPENDIX E – TOPSOIL SUPPLIER CHEMICAL ANALYSIS

Freeland Horticulture Ltd
Rosedale Nursery
College Road
Hextable
Kent
BR8 7LT

Attention: Philippa Lambourne

Our Ref: 962-SA

24 September 2021

Dear Philippa

Topsoil Analysis Report : Beenham Topsoil –September 2021

We have completed the analysis of the topsoil sample recently taken from the above site and it has been forwarded to an approved laboratory for analysis and have the pleasure of reporting our findings. The purpose of the analysis was to determine the suitability of the topsoil for general landscaping purposes and its compliance with the current British Standard for topsoil (BS3882).

SOIL SAMPLING & EXAMINATION

At the time of our sampling visit the topsoil was stored in a stockpile. A series of 10 hand augered trial holes were constructed across the stockpile for the purpose of soil examination and sample collection. As the soil examination confirmed a consistent topsoil composition, the ten samples were combined together to form one composite sample for analysis purposes. The soil was described as dark brown, slightly moist and friable with a well-developed, fine to medium granular structure. The soil contained a low fraction of small stones and no deleterious materials (eg. building waste materials, glass, roots or rhizomes of pernicious weeds) or unusual odours (eg. hydrocarbons) were recorded.

LABORATORY ANALYSIS

The topsoil sample was submitted to a UKAS and MCERTS accredited laboratory for routine physical and chemical parameters to confirm the composition and fertility of the soil. The following parameters were determined:

- ⊕ pH & electrical conductivity values;
- ⊕ major plant nutrients (N, P, K, Mg) & organic matter content;
- ⊕ particle size distribution and stone content;
- ⊕ heavy metals & potentially toxic elements (As, Cd, Cr, Cu, Pb, Hg, Ni, Se, Zn, B);
- ⊕ sulphate, sulphur, sulphide;
- ⊕ total cyanide and total (mono) phenols;
- ⊕ speciated PAHs (US EPA16)
- ⊕ banded aromatic and aliphatic petroleum hydrocarbons (C₅-C₃₅).
- ⊕ Asbestos

The results are presented on the attached Certificate of Analysis and an interpretation of the results is given below.

COMMENTS**pH & Electrical Conductivity (salinity) Values**

The sample was alkaline in nature (pH 8.5) with a pH value that would be considered suitable for general landscaping purposes.

The electrical conductivity (salinity) value using the soil:water extract was (756S/cm) indicating that soluble salts are not present at levels that would be harmful to plants.

The electrical conductivity values by CaSO₄ extract (BS3882 requirement) fell below the maximum specified value (3300µS/cm) given in BS3882:2015.

Organic Matter & Nutrient Status

The sample was rich in organic matter and all major plant nutrients. No further additions of compost or fertiliser are required, or indeed recommended, for at least the first growing season.

The C:N ratio of the sample was acceptable for general landscape purposes.

Particle Size Distribution & Stone Content

The sample contained 85% sand and fell into the loamy sand texture class. This particle size distribution is considered suitable for a broad range of landscape applications, including tree and shrub planting, turfing and seeding.

The sample was Virtually free from stones of 50 mm and upwards in diameter and only contained a slight fraction of smaller stones (2.5%). As such, stones will not restrict the use of the soil for landscaping purposes.

Potential Contaminants

We are not aware of any specified contaminant levels set for the proposed end-use of this topsoil. This includes human health, environmental protection and metals considered toxic to plants. In the absence of any site-specific assessment criteria, the concentrations that affect human health have been compared with the 'residential with homegrown produce' land use in the Suitable For Use Levels presented in 'The LQM/CIEH S4UIs' for Human Health Risk Assessment (2015) and DEFRA SP1010: 'Development of Category 4 Screening Levels' for Assessment of Land Affected by Contamination – Policy Companion Document (2014).

Of the potential contaminants determined, none was found at levels that would exceed their respective guideline values.

CONCLUSION

The purpose of the analysis was to determine the suitability of the topsoil for general landscaping purposes. From the soil examination and laboratory analysis, the soil is described as an alkaline, non-saline, loamy sand. The organic matter and nutrient levels are acceptable, and no significant contamination was found with respect to the parameters determined. This soil would adhere to the current BS3882 specification for 'multipurpose grade'.

To conclude, based on our findings, the topsoil would be considered well-suited to general landscaping purposes provided the physical condition of the soil is maintained.

We hope this report meets with your approval and provides the necessary information. Please do not hesitate to contact the undersigned if you have any queries or comments.

George Longmuir MSc Soil Sci. M.I Soil Sci.

Client	Freeland Horticulture Ltd
Job Name	Topsoil Analysis
Site	Beenham, Berkshire
Month/Year	September 21
Our Ref	0962-SA
Date	24 September 2021

Composite sample

pH Value & Salinity

pH value (1:2.5 soil/water ext)	units	8.5
Electrical Conductivity (1:2.5 soil/water ext)	µS/cm	756
Electrical Conductivity (1:2.5 soil/CaSO ₄ ext)	µS/cm	2754
Neutralising Value (CaCO ₃ equivalent)	%	10.5

Organic Matter & Nutrient Status

Organic Matter (LOI)	%	6.8
Organic Carbon (Derived)	%	4.0
Total Nitrogen	%	0.254
Carbon:Nitrogen Ratio	:1	15.6
Available Phosphorus	mg/l	56.8
Available Potassium	mg/l	994
Available Magnesium	mg/l	115

Particle Size Analysis & Stones

Clay (<0.002mm)	%	7
Silt (0.063-0.002mm)	%	8
Sand (2.0-0.063mm)	%	85
Texture Class	UK Class	Loamy Sand

Stones 2-20mm	% by DW	2.5
Stones 20-50mm	% by DW	0.0
Stones >50mm	% by DW	0.0

Potential Contaminants

Total Arsenic (As)	mg/kg	9.2
Total Cadmium (Cd)	mg/kg	<0.1
Total Chromium (Cr)	mg/kg	12.0
Hexavalent Chromium (Cr ^{VI})	mg/kg	1.2
Total Copper (Cu)	mg/kg	10.0
Total Lead (Pb)	mg/kg	17.3
Total Mercury (Hg)	mg/kg	<0.2
Total Nickel (Ni)	mg/kg	<10
Total Selenium (Se)	mg/kg	0.17
Total Zinc (Zn)	mg/kg	43.0
Total Beryllium (Be)	mg/kg	<1
Total Barium (Ba)	mg/kg	27.6
Total Vanadium (V)	mg/kg	21.2
Hot Water Soluble Boron (B)	mg/kg	1.6
Total Cyanide (CN)	mg/kg	<1
Elemental Sulphur (S)	mg/kg	<5
Easily Liberated Sulphide (S ²⁻)	mg/kg	<1
Water Soluble Sulphate (SO ₄ ²⁻)	mg/l	<40
Total Phenols Index	mg/kg	<1
Asbestos Screen	-	N.D.

Client	Freeland Horticulture Ltd
Job Name	Topsoil Analysis
Site	Beenham, Berkshire
Month/Year	September 21
Our Ref	0962-SA
Date	24 September 2021

Polyaromatic Hydrocarbons

Naphthalene	mg/kg	<0.05
Acenaphthylene	mg/kg	<0.05
Acenaphthene	mg/kg	<0.05
Fluorene	mg/kg	<0.05
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.05
Fluoranthene	mg/kg	0.2
Pyrene	mg/kg	0.2
Benzo[a]anthracene	mg/kg	<0.1
Chrysene	mg/kg	0.1
Benzo[b]fluoranthene	mg/kg	0.1
Benzo[k]fluoranthene	mg/kg	<0.1
Benzo[a]pyrene	mg/kg	<0.1
Indeno[1,2,3-cd]pyrene	mg/kg	<0.1
Dibenzo[a,h]anthracene	mg/kg	<0.1
Benzo[g,h,i]perylene	mg/kg	<0.1
Total PAHs sum US EPA 16	mg/kg	<1

Banded Petroleum Hydrocarbons

Aliphatic TPH >C ₅ -C ₆	mg/kg	0.28
Aliphatic TPH >C ₆ -C ₈	mg/kg	<0.05
Aliphatic TPH >C ₈ -C ₁₀	mg/kg	<0.05
Aliphatic TPH >C ₁₀ -C ₁₂	mg/kg	<10
Aliphatic TPH >C ₁₂ -C ₁₆	mg/kg	<10
Aliphatic TPH >C ₁₆ -C ₂₁	mg/kg	<10
Aliphatic TPH >C ₂₁ -C ₃₅	mg/kg	37.0
Aliphatic TPH >C ₃₅ -C ₄₄	mg/kg	12.0

Aromatic TPH >C ₅ -C ₇	mg/kg	<0.05
Aromatic TPH >C ₇ -C ₈	mg/kg	<0.05
Aromatic TPH >C ₈ -C ₁₀	mg/kg	<0.05
Aromatic TPH >C ₁₀ -C ₁₂	mg/kg	<10
Aromatic TPH >C ₁₂ -C ₁₆	mg/kg	<10
Aromatic TPH >C ₁₆ -C ₂₁	mg/kg	<10
Aromatic TPH >C ₂₁ -C ₃₅	mg/kg	40.0
Aromatic TPH >C ₃₅ -C ₄₄	mg/kg	16.0

Total Petroleum Hydrocarbons (C ₅ -C ₄₄)	mg/kg	105
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BTEX

Benzene	mg/kg	<0.02
Toluene	mg/kg	<0.2
Ethyl Benzene	mg/kg	<0.04
m- & p- Xylene	mg/kg	<0.2
o-Xylene	mg/kg	<0.1

APPENDIX F – VERIFICATION TESTING RESULTS

Richard Reece

Enzygo Geoenvironmental Ltd
The Byre
Woodend Lane
Cromhall
Gloucestershire
GL12 8AA

e: richard.reece@enzygo.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404

f: 01923 237404

e: reception@i2analytical.com

Analytical Report Number : 23-14196

Project / Site name:	Cardiff Road, Reading	Samples received on:	26/01/2023
Your job number:	CRM.1265.013	Samples instructed on/ Analysis started on:	26/01/2023
Your order number:	CRM.1265.013	Analysis completed by:	03/02/2023
Report Issue Number:	1	Report issued on:	03/02/2023
Samples Analysed:	1 soil sample		


Signed:

Adam Fenwick
Technical Reviewer
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 23-14196
Project / Site name: Cardiff Road, Reading
Your Order No: CRM.1265.013

Lab Sample Number				2566303
Sample Reference				HP6
Sample Number				None Supplied
Depth (m)				0.00-0.60
Date Sampled				25/01/2023
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	21
Total mass of sample received	kg	0.001	NONE	0.8

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	ASE

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9
Organic Matter (automated)	%	0.1	MCERTS	7.8
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	4.5

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.59
Anthracene	mg/kg	0.05	MCERTS	0.15
Fluoranthene	mg/kg	0.05	MCERTS	1.4
Pyrene	mg/kg	0.05	MCERTS	1.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.64
Chrysene	mg/kg	0.05	MCERTS	0.58
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.0
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.56
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	6.19
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9
Boron (water soluble)	mg/kg	0.2	MCERTS	2.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	29
Lead (aqua regia extractable)	mg/kg	1	MCERTS	55
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	92

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	22

Analytical Report Number: 23-14196
 Project / Site name: Cardiff Road, Reading
 Your Order No: CRM.1265.013

Lab Sample Number				2566303
Sample Reference				HP6
Sample Number				None Supplied
Depth (m)				0.00-0.60
Date Sampled				25/01/2023
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
TPH-CWG - Aliphatic > EC35 - EC44 EH_CU_ID_AL	mg/kg	8.4	NONE	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_ID_AL	mg/kg	10	NONE	25
TPH-CWG - Aliphatic (EC5 - EC44) EH_CU+HS_ID_AL	mg/kg	10	NONE	25

TPH-CWG - Aromatic > EC5 - EC7 HS_ID_AR	mg/kg	0.001	NONE	< 0.001
TPH-CWG - Aromatic > EC7 - EC8 HS_ID_AR	mg/kg	0.001	NONE	< 0.001
TPH-CWG - Aromatic > EC8 - EC10 HS_ID_AR	mg/kg	0.001	NONE	< 0.001
TPH-CWG - Aromatic > EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aromatic > EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	3.1
TPH-CWG - Aromatic > EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic > EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	25
TPH-CWG - Aromatic > EC35 - EC44 EH_CU_ID_AR	mg/kg	8.4	NONE	12
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_ID_AR	mg/kg	10	NONE	34
TPH-CWG - Aromatic (EC5 - EC44) EH_CU+HS_ID_AR	mg/kg	10	NONE	46

TPH (>C5 - C7) HS_ID_TOTAL	mg/kg	1	NONE	< 1.0
TPH (>C7 - C8) HS_ID_TOTAL	mg/kg	1	NONE	< 1.0
TPH (C8 - C10) HS_ID_TOTAL	mg/kg	0.1	NONE	< 0.1
TPH (C10 - C12) EH_CU_ID_TOTAL	mg/kg	2	MCERTS	< 2.0
TPH (C12 - C16) EH_CU_ID_TOTAL	mg/kg	4	MCERTS	< 4.0
TPH (C16 - C21) EH_CU_ID_TOTAL	mg/kg	1	MCERTS	7.9
TPH (C21 - C35) EH_CU_ID_TOTAL	mg/kg	1	MCERTS	47
TPH (C35 - C44) EH_CU_ID_TOTAL	mg/kg	10	NONE	15
TPH Total C5 - C44 EH_CU+HS_ID_TOTAL	mg/kg	10	NONE	71

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 23-14196

Project / Site name: Cardiff Road, Reading

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2566303	HP6	None Supplied	0.00-0.60	Brown loam with gravel and vegetation.

Analytical Report Number : 23-14196

Project / Site name: Cardiff Road, Reading

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC. Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
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Analytical Report Number : 23-14196

Project / Site name: Cardiff Road, Reading

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
HS	Headspace Analysis				
MS	Mass spectrometry				
FID	Flame Ionisation Detector				
GC	Gas Chromatography				
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))				
CU	Clean-up - e.g. by Florisil®, silica gel				
1D	GC - Single coil/column gas chromatography				
2D	GC-GC - Double coil/column gas chromatography				
Total	Aliphatics & Aromatics				
AL	Aliphatics				
AR	Aromatics				
#1	EH_2D_Total but with humics mathematically subtracted				
#2	EH_2D_Total but with fatty acids mathematically subtracted				
_	Operator - understore to separate acronyms (exception for +)				
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total				

APPENIDX G – WASTE TRANSFER NOTES



Hydecrite Pit
Pingewood Road North
Burghfield Bridge

Conveyance/ Delivery Note

Carrier Licence: CBDU173096

VAT Reg: GB-844 6704 12

Permit No: EPR/JB3132AR

Account No. MOSTSURR

Site Address:

MOSTRIM GROUNDWORKS
LIMITED
119 KINGSTON ROAD
LEATHERHEAD
SURREY
KT22 7SU

CARDIFF ROAD
C/O BELLWAY HOMES
CARDIFF ROAD
8AM START ON SITE
READING
RG1 8LB

Ticket No: 181284 **Date:** 15/10/2021
Ref: 2071 **Order No:** PO 170
SIC Code:
Vehicle Reg: JM18DEM
Vehicle Type: Tipper

Qty	Unit	Product Type	Gross (KG)	Tare (KG)	Net (KG)
1.00	Load	Granular Muck Away	32300	13200	19100

Weighbridge

	Date	Time	KG
Weighbridge Operator	Ticket No: 181284	15/10/2021 14:52:38	Gross 32300
Sorin		21/05/2019 15:11:28	Tare 13200
			Net 19100

Notes

Site must only be accessed via Richfield Avenue Tessa Road & Cremyll Road. NO ACCESS VIA SWANSEA ROAD

Producer / Carrier

Customer

Driver Name

ptrussler

Print Name

Charlie Ogden

W/b Op Name

Signature

Signature

Signature

Tipped Information

Location: Reading Quarry Wash Plant In
Berrys Lane
Pingewood
Reading
RG30 3XA

Tipped Ticket: 181679
Licence Number: EPR/JB3132AR
Tipped Ticket:

I, the producer/holder/transferor, confirm that I have fulfilled my duty to apply the waste hierarchy as requested by regulation 12 of the Waste (England and Wales) Regulations 2011.



Hydecree Pit
Pingewood Road North
Burghfield Bridge

Conveyance/ Delivery Note

Carrier Licence: CBDU173096

VAT Reg: GB-844 6704 12

Permit No: EPR/JB3132AR

Account No. MOSTSURR

Site Address:

MOSTRIM GROUNDWORKS
LIMITED
119 KINGSTON ROAD
LEATHERHEAD
SURREY
KT22 7SU

CARDIFF ROAD
C/O BELLWAY HOMES
CARDIFF ROAD
8AM START ON SITE
READING
RG1 8LB

Ticket No: 180725 Date: 14/10/2021

Ref: 2071 Order No: PO 170

SIC Code:

Vehicle Reg: JM19JMR

Vehicle Type: Tipper

Qty	Unit	Product Type	Gross (KG)	Tare (KG)	Net (KG)
1.00	Load	Granular Muck Away	31360	13200	18160

Weighbridge

Date

Time

KG

Weighbridge Operator

Ticket No: 180725

14/10/2021

15:52:25

Gross

31360

Marian

13/06/2019

14:17:35

Tare

13200

Net

18160

Notes

Site must only be accessed via Richfield Avenue Tessa Road & Cremyll Road. NO ACCESS VIA SWANSEA ROAD

Producer / Carrier

Customer

Driver Name ptrussler

Print Name

Kristian Phillips

W/b Op Name

Signature

Signature

Signature

Tipped Information

Location: Reading Quarry Wash Plant In
Berrys Lane
Pingewood
Reading
RG30 3XA

Tipped Ticket: 181303

Licence Number: EPR/JB3132AR

Tipped Ticket:

I, the producer/holder/transferor, confirm that I have fulfilled my duty to apply the waste hierarchy as requested by regulation 12 of the Waste (England and Wales) Regulations 2011.



J. Mould

Hydecree Pit
Pingewood Road North
Burghfield Bridge

Conveyance/ Delivery Note

Carrier Licence: CBDU173096

VAT Reg: GB-844 6704 12

Permit No: EPR/JB3132AR

Account No. MOSTSURR

Site Address:

MOSTRIM GROUNDWORKS
LIMITED
119 KINGSTON ROAD
LEATHERHEAD
SURREY
KT22 7SU

CARDIFF ROAD
C/O BELLWAY HOMES
CARDIFF ROAD
8AM START ON SITE
READING
RG1 8LB

Ticket No: 180724 **Date:** 14/10/2021

Ref: 2071 **Order No:** PO 170

SIC Code:

Vehicle Reg: JM19JMR

Vehicle Type: Tipper

Qty	Unit	Product Type	Gross (KG)	Tare (KG)	Net (KG)
1.00	Load	Granular Muck Away	31640	13200	18440

Weighbridge	Date	Time	KG
Weighbridge Operator	Ticket No: 180724	14/10/2021 08:51:52	Gross 31640
Marian		13/06/2019 14:17:35	Tare 13200
			Net 18440

Notes

Site must only be accessed via Richfield Avenue Tessa Road & Cremyll Road. NO ACCESS VIA SWANSEA ROAD

Producer / Carrier

Customer

Driver Name ptrussler

Print Name

Kristian Phillips

W/b Op Name

Signature

Signature

Signature

Tipped Information

Location: Reading Quarry Wash Plant In
Berrys Lane
Pingewood
Reading
RG30 3XA

Tipped Ticket: 181034

Licence Number: EPR/JB3132AR

Tipped Ticket:

I, the producer/holder/transferor, confirm that I have fulfilled my duty to apply the waste hierarchy as requested by regulation 12 of the Waste (England and Wales) Regulations 2011.



Hydecree Pit
Pingewood Road North
Burghfield Bridge

Carrier Licence: CBDU173096
VAT Reg: GB-844 6704 12
Permit No: EPR/JB3132AR

Account No. MOSTSURR**Site Address:**

MOSTRIM GROUNDWORKS
LIMITED
119 KINGSTON ROAD
LEATHERHEAD
SURREY
KT22 7SU

CARDIFF ROAD
C/O BELLWAY HOMES
CARDIFF ROAD
8AM START ON SITE
READING
RG1 8LB

Ticket No: 180176 **Date:** 13/10/2021

Ref: 2071 **Order No:** PO 170

SIC Code:

Vehicle Reg: JM16JON

Vehicle Type: Tipper

Qty	Unit	Product Type	Gross (KG)	Tare (KG)	Net (KG)
1.00	Load	Granular Muck Away	31440	12900	18540

Weighbridge**Date****Time****KG****Weighbridge Operator**

Prasilowski

Ticket No: 180176

13/10/2021

11:19:58

Gross

31440

05/07/2021

13:06:40

Tare

12900

Net

18540

Notes

Site must only be accessed via Richfield Avenue Tessa Road & Cremyll Road. NO ACCESS VIA SWANSEA ROAD

Producer / Carrier**Customer****Driver Name**

colinc

Print Name

Gary Sinclair

W/b Op Name**Signature****Signature****Signature****Tipped Information**

Location: Reading Quarry Wash Plant In
Berrys Lane
Pingewood
Reading
RG30 3XA

Tipped Ticket: 180694**Licence Number:** EPR/JB3132AR**Tipped Ticket:**

I, the producer/holder/transferor, confirm that I have fulfilled my duty to apply the waste hierarchy as requested by regulation 12 of the Waste (England and Wales) Regulations 2011.



Hydecree Pit
Pingewood Road North
Burghfield Bridge

Conveyance / Delivery Note

Carrier Licence: CBDU173096
VAT Reg: GB-844 6704 12
Permit No: EPR/JB3132AR

Account No. MOSTSURR

Site Address:

MOSTRIM GROUNDWORKS
LIMITED
119 KINGSTON ROAD
LEATHERHEAD
SURREY
KT22 7SU

CARDIFF ROAD
C/O BELLWAY HOMES
CARDIFF ROAD
8AM START ON SITE
READING
RG1 8LB

Ticket No: 180175 **Date:** 13/10/2021
Ref: 2071 **Order No:** PO 170
SIC Code:
Vehicle Reg: JM16JON
Vehicle Type: Tipper

Qty	Unit	Product Type	Gross (KG)	Tare (KG)	Net (KG)
1.00	Load	Granular Muck Away	31040	12900	18140

Weighbridge	Date	Time	KG
Weighbridge Operator	Ticket No: 180175	13/10/2021 08:59:16	Gross 31040
lonel		05/07/2021 13:06:40	Tare 12900
			Net 18140

Notes

Site must only be accessed via Richfield Avenue Tessa Road & Cremyll Road. NO ACCESS VIA SWANSEA ROAD

Producer / Carrier

Customer

Driver Name colinc

Print Name Gary Sinclair

W/b Op Name

Signature

Signature

Signature

Tipped Information

Location: Reading Quarry Wash Plant In
Berrys Lane
Pingewood
Reading
RG30 3XA

Tipped Ticket: 180603
Licence Number: EPR/JB3132AR
Tipped Ticket:

I, the producer/holder/transferor, confirm that I have fulfilled my duty to apply the waste hierarchy as requested by regulation 12 of the Waste (England and Wales) Regulations 2011.



Hydecree Pit
Pingewood Road North
Burghfield Bridge

Carrier Licence: CBDU173096
VAT Reg: GB-844 6704 12
Permit No: EPR/JB3132AR

Account No. MOSTSURR**Site Address:**

MOSTRIM GROUNDWORKS
LIMITED
119 KINGSTON ROAD
LEATHERHEAD
SURREY
KT22 7SU

CARDIFF ROAD
C/O BELLWAY HOMES
CARDIFF ROAD
8AM START ON SITE
READING
RG1 8LB

Ticket No: 182698
Ref: 2071
SIC Code:
Vehicle Reg: JM17JON
Vehicle Type: Tipper
Date: 21/10/2021
Order No: PO 170

Qty	Unit	Product Type	Gross (KG)	Tare (KG)	Net (KG)
1.00	Load	Granular Muck Away	31260	13200	18060

Weighbridge	Date	Time	KG
Weighbridge Operator	Ticket No: 182698	21/10/2021 12:17:31	Gross 31260
Marin		18/02/2021 00:00:00	Tare 13200
			Net 18060

Notes

Site must only be accessed via Richfield Avenue Tessa Road & Cremyll Road. NO ACCESS VIA SWANSEA ROAD

Producer / Carrier**Customer**

Driver Name colinc

Print Name Derek Rapley

W/b Op Name

Signature

Signature

Signature

Colin

Tipped Information

Location: Reading Quarry Wash Plant In
Berrys Lane
Pingewood
Reading
RG30 3XA

Tipped Ticket: 182833
Licence Number: EPR/JB3132AR
Tipped Ticket:

I, the producer/holder/transferor, confirm that I have fulfilled my duty to apply the waste hierarchy as requested by regulation 12 of the Waste (England and Wales) Regulations 2011.



J. Mould

Hydecrite Pit
Pingewood Road North
Burghfield Bridge

Conveyance / Delivery Note

Carrier Licence: CBDU173096

VAT Reg: GB-844 6704 12

Permit No: EPR/JB3132AR

Account No. MOSTSARR

MOSTRIM GROUNDWORKS
LIMITED
119 KINGSTON ROAD
LEATHERHEAD
SURREY
KT22 7SU

Site Address:

CARDIFF ROAD
C/O BELLWAY HOMES
CARDIFF ROAD
8AM START ON SITE
READING
RG1 8LB

Ticket No: 182697 **Date:** 21/10/2021
Ref: 2071 **Order No:** PO 170
SIC Code:
Vehicle Reg: JM17JON
Vehicle Type: Tipper

Qty	Unit	Product Type	Gross (KG)	Tare (KG)	Net (KG)
1.00	Load	Granular Muck Away	31340	13200	18140

Weighbridge	Date	Time	KG
Weighbridge Operator	Ticket No: 182697	21/10/2021 10:06:01	Gross 31340
Marian		18/02/2021 00:00:00	Tare 13200
			Net 18140

Notes

Site must only be accessed via Richfield Avenue Tessa Road & Cremyll Road. NO ACCESS VIA SWANSEA ROAD

Producer / Carrier

Driver Name colinc

Signature

Customer

Print Name Derek Rapley

Signature

W/b Op Name

Signature

Tipped Information

Location: Reading Quarry Wash Plant In
Berrys Lane
Pingewood
Reading
RG30 3XA

Tipped Ticket: 182779
Licence Number: EPR/JB3132AR
Tipped Ticket:

I, the producer/holder/transferor, confirm that I have fulfilled my duty to apply the waste hierarchy as requested by regulation 12 of the Waste (England and Wales) Regulations 2011.



Hydecrete Pit
Pingewood Road North
Burghfield Bridge

Conveyance/ Delivery Note

Carrier Licence: CBDU173096

VAT Reg: GB-844 6704 12

Permit No: EPR/JB3132AR

Account No. MOSTSURR

Site Address:

MOSTRIM GROUNDWORKS
LIMITED
119 KINGSTON ROAD
LEATHERHEAD
SURREY
KT22 7SU

CARDIFF ROAD
C/O BELLWAY HOMES
CARDIFF ROAD
8AM START ON SITE
READING
RG1 8LB

Ticket No: 183979 Date: 28/10/2021

Ref: 2071 Order No: PO 170

SIC Code:

Vehicle Reg: JM18DEM

Vehicle Type: Tipper

Qty	Unit	Product Type	Gross (KG)	Tare (KG)	Net (KG)
1.00	Load	Granular Muck Away	32120	13200	18920

Weighbridge	Date	Time	KG
Weighbridge Operator	Ticket No: 183979	28/10/2021 15:19:53	Gross 32120
Mariam	21/05/2019 15:11:28	Tare 13200	Net 18920

Notes

Site must only be accessed via Richfield Avenue Tessa Road & Cremyll Road. NO ACCESS VIA SWANSEA ROAD

Producer / Carrier

Customer

Driver Name colinc

Print Name Charlie Ogden

W/b Op Name

Signature

Signature

Signature

Tipped Information

Location: Reading Quarry Wash Plant In
Berrys Lane
Pingewood
Reading
RG30 3XA

Tipped Ticket: 184719

Licence Number: EPR/JB3132AR

Tipped Ticket:

I, the producer/holder/transferor, confirm that I have fulfilled my duty to apply the waste hierarchy as requested by regulation 12 of the Waste (England and Wales) Regulations 2011.

Account No. MOSTSURR

Site Address:

MOSTRIM GROUNDWORKS
LIMITED
119 KINGSTON ROAD
LEATHERHEAD
SURREY
KT22 7SU

CARDIFF ROAD
C/O BELLWAY HOMES
CARDIFF ROAD
8AM START ON SITE
READING
RG1 8LB

Ticket No: 183978 Date: 27/10/2021
Ref: 2071 Order No: PO 170
SIC Code:
Vehicle Reg: JM19JSM
Vehicle Type: Tipper

Qty	Unit	Product Type	Gross (KG)	Tare (KG)	Net (KG)
1.00	Load	Granular Muck Away	31280	13200	18080

Weighbridge	Date	Time	KG
Weighbridge Operator	Ticket No: 183978	27/10/2021 14:29:00	Gross 31280
Marian		17/07/2020 16:21:35	Tare 13200
			Net 18080

Notes

Site must only be accessed via Richfield Avenue Tessa Road & Cremyll Road. NO ACCESS VIA SWANSEA ROAD

Producer / Carrier

Customer

Driver Name

colinc

Print Name

Tim Edwards

W/b Op Name

Signature



Signature

Signature



Tipped Information

Location: Reading Quarry Wash Plant In
Berry's Lane
Pingewood
Reading
RG30 3XA

Tipped Ticket: 184274
Licence Number: EPR/JB3132AR
Tipped Ticket:

I, the producer/holder/transferor, confirm that I have fulfilled my duty to apply the waste hierarchy as requested by regulation 12 of the Waste (England and Wales) Regulations 2011.



J. Mould

Hydecroft Pit
Pingewood Road North
Burghfield Bridge

Conveyance / Delivery Note

Carrier Licence: CBDU173096

VAT Reg: GB-844 6704 12

Permit No: EPR/JB3132AR

Account No. MOSTSURR

Site Address:

MOSTRIM GROUNDWORKS
LIMITED
119 KINGSTON ROAD
LEATHERHEAD
SURREY
KT22 7SU

CARDIFF ROAD
C/O BELLWAY HOMES
CARDIFF ROAD
8AM START ON SITE
READING
RG1 8LB

Ticket No: 183977 **Date:** 27/10/2021
Ref: 2071 **Order No:** PO 170
SIC Code:
Vehicle Reg: JM19JSM
Vehicle Type: Tipper

Qty	Unit	Product Type	Gross (KG)	Tare (KG)	Net (KG)
1.00	Load	Granular Muck Away	31320	13200	18120

Weighbridge	Date	Time	KG
Weighbridge Operator	Ticket No: 183977	27/10/2021 12:50:46	Gross 31320
Marian		17/07/2020 16:21:35	Tare 13200
			Net 18120

Notes

Site must only be accessed via Richfield Avenue Tessa Road & Cremyll Road. NO ACCESS VIA SWANSEA ROAD

Producer / Carrier

Customer

Driver Name

colinc

Print Name

Tim Edwards

W/b Op Name

Signature

Signature

Signature

Tipped Information

Location: Reading Quarry Wash Plant In
Berrys Lane
Pingewood
Reading
RG30 3XA

Tipped Ticket: 184244
Licence Number: EPR/JB3132AR
Tipped Ticket:

I, the producer/holder/transferor, confirm that I have fulfilled my duty to apply the waste hierarchy as requested by regulation 12 of the Waste (England and Wales) Regulations 2011.



Hydecree Pit
Pingewood Road North
Burghfield Bridge

Conveyance/ Delivery Note

Carrier Licence: CBDU173096

VAT Reg: GB-844 6704 12

Permit No: EPR/JB3132AR

Account No. MOSTSURR

Site Address:

MOSTRIM GROUNDWORKS
LIMITED
119 KINGSTON ROAD
LEATHERHEAD
SURREY
KT22 7SU

CARDIFF ROAD
C/O BELLWAY HOMES
CARDIFF ROAD
8AM START ON SITE
READING
RG1 8LB

Ticket No: 183976 **Date:** 27/10/2021
Ref: 2071 **Order No:** PO 170
SIC Code:
Vehicle Reg: JM19JSM
Vehicle Type: Tipper

Qty	Unit	Product Type	Gross (KG)	Tare (KG)	Net (KG)
1.00	Load	Granular Muck Away	31540	13200	18340

Weighbridge	Date	Time	KG
Weighbridge Operator	Ticket No: 183976	27/10/2021 11:53:06	Gross 31540
Marian		17/07/2020 16:21:35	Tare 13200
			Net 18340

Notes

Site must only be accessed via Richfield Avenue Tessa Road & Cremyll Road. NO ACCESS VIA SWANSEA ROAD

Producer / Carrier

Driver Name colinc

Customer

Print Name Tim Edwards

W/b Op Name

Signature

Signature

Signature

Tipped Information

Location: Reading Quarry Wash Plant In
Berry's Lane
Pingewood
Reading
RG30 3XA

Tipped Ticket: 184217
Licence Number: EPR/JB3132AR
Tipped Ticket:

I, the producer/holder/transferor, confirm that I have fulfilled my duty to apply the waste hierarchy as requested by regulation 12 of the Waste (England and Wales) Regulations 2011.