

Date: 5th October 2017

Our Ref: R17-12415/waste

GEOTECHNICAL
AND
ENVIRONMENTAL
ENGINEERS

Surjit Siingh Jutla
Euro Link Property Services
9 London Road
Reading
Berkshire
RG1 5BJ

**The Old Dairy
Swanborough Farm
Lewes
East Sussex
BN7 3PF**

Dear Surjit

**Land to Rear of 112 to 126 Southampton Street, Reading
Indicative Waste Classification Information**

Ashdown Site Investigation Ltd. have undertaken an intrusive ground investigation at the above site. A Contamination Risk Assessment Report (ref: R17-12415, dated October 2017) has been prepared and issued under separate cover.

Telephone
01273 483119

Website
www.AshdownSI.co.uk

As part of the investigation, samples of the made ground encountered were tested for a range of commonly occurring contaminants to assist with the classification of these soils for waste disposal purposes.

Email
contact@AshdownSI.co.uk

Copies of the borehole location plan and the exploratory hole logs are presented in Appendix A of this report. The laboratory test results are presented in Appendix B. Analysis of the results of the laboratory testing was undertaken using the HazWasteOnline tool. The output sheets are presented in Appendix C.

Company Registration Number
242 6786

The following table summarises the classification of soils tested and the code from the List of Wastes (LoW) and the results of the WAC testing.

Table 1. Summary of Classification of Samples from HazWasteOnline Analysis

Exploratory Hole Location	Sample Depth (m bgl)	Classification	Code from LoW	WAC Test Results
WS01	0.20	Hazardous	17 05 04	-
WS02	0.30	Non-hazardous	17 05 04	Meets Inert WAC
WS03	0.20	Hazardous	17 05 04	-
WS04	0.10	Non-hazardous	17 05 04	-
WS05	0.10	Non-hazardous	17 05 04	Meets Inert WAC
WS06	0.20	Non-hazardous	17 05 04	-
WS07	0.10	Hazardous	17 05 04	-
WS08	0.20	Non-hazardous	17 05 04	-

No testing was carried out on the undisturbed soils present beneath the site, though these would be expected to be suitable for disposal at a landfill licensed to accept inert waste.



It is noted that the disposal site has the final decision on whether to accept any materials and we would recommend that all of the testing and classification information be provided to them at the earliest opportunity.

Yours sincerely

A handwritten signature in black ink, appearing to read 'S. Atkinson', with a stylized flourish at the end.

Stephen Atkinson

Ashdown Site Investigation Limited

Appendix A

Borehole Location Plan

Borehole Logs



ASHDOWN SITE INVESTIGATION L · I · M · I · T · E · D E-mail: contact@ashdownsi.co.uk Web: www.ashdownsi.co.uk Tel: 01273 483119	Site Name: Rear of 112-126 Southampton Street, Reading						
	Job Number: R17-12415						
	Start Date: 04/09/2017		Borehole Number: WS01				
End Date: 04/09/2017					Sheet 1 of 1		
Samples and In Situ Testing							
Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Legend	Depth	Stratum Description
	J T	0.20				0.00	MADE GROUND: Brown, red and black angular to subrounded fine to coarse gravel of brick, asphalt, concrete, clinker-like material and flint. Sand is fine to coarse.
	D	0.50				0.40	MADE GROUND: Dark brown grey slightly sandy gravelly clay. Gravel is angular to subrounded fine to coarse concrete, charcoal-like material, brick and flint. Sand is fine to coarse.
	J T	0.80					
	D	1.20					
	D	1.60				1.50	Light brown orange sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse flint and shell fragments. Sand is fine to coarse. (Taplow Gravel Member)
	J T	1.80				2.00	End of borehole at 2.00m
Remarks							
Groundwater: Borehole dry on completion.							
Stability: Borehole stable on completion.							
Notes: n/a							
Excavation Method: WLS							
Borehole Diameter: Various							
Made By: PC							

Site Name: Rear of 112-126 Southampton Street, Reading

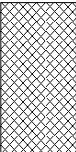
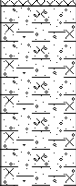
Job Number: R17-12415

Start Date: 04/09/2017

End Date: 04/09/2017

Borehole Number: **WS02**

Sheet 1 of 1

Samples and In Situ Testing						Stratum Description	
Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Legend	Depth	
	D	0.20				0.00	MADE GROUND: Black, red and brown sandy angular to subrounded fine to coarse gravel of brick, concrete, asphalt, clinker-like material, charcoal-like material and flint. Sand is fine to coarse.
	J T	0.30				0.50	MADE GROUND: Dark brown grey slightly sandy gravelly clay. Gravel is angular to subrounded fine to coarse concrete, charcoal-like material, brick and flint. Sand is fine to coarse.
	J T	0.90					
	D	1.20					
	J T	1.70					
	D	1.90					
						1.40	Orange brown sandy gravelly silty CLAY. Gravel is subangular to rounded fine to medium flint. Sand is fine to coarse. (Taplow Gravel Member)
						2.00	End of borehole at 2.00m

Remarks	
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Groundwater: Borehole dry on completion.

Stability: Borehole stable on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: PC

ASHDOWN SITE INVESTIGATION LIMITED E-mail: contact@ashdownsi.co.uk Web: www.ashdownsi.co.uk Tel: 01273 483119	Site Name: Rear of 112-126 Southampton Street, Reading					
	Job Number: R17-12415					
	Start Date: 04/09/2017			Borehole Number: WS03		
End Date: 04/09/2017			Sheet 1 of 1			
Samples and In Situ Testing						
Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Legend	Depth
	J T	0.20				0.00
	D	0.50				0.70
	J T	1.10				1.30
	D	1.20				2.00
	J T	1.80				
	D	1.90				
						End of borehole at 2.00m
Remarks Groundwater: Borehole dry on completion. Stability: Borehole stable on completion. Notes: n/a						Excavation Method: WLS
						Borehole Diameter: Various
						Made By: PC

ASHDOWN SITE INVESTIGATION LIMITED E-mail: contact@ashdownsi.co.uk Web: www.ashdownsi.co.uk Tel: 01273 483119	Site Name: Rear of 112-126 Southampton Street, Reading						
	Job Number: R17-12415						
	Start Date: 04/09/2017			Borehole Number: WS04			
	End Date: 04/09/2017						
Sheet 1 of 1							
Samples and In Situ Testing							
Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Legend	Depth	Stratum Description
	J T	0.10				0.00	MADE GROUND: Red, white and brown sandy clayey angular to subrounded fine to coarse gravel of concrete, asphalt, brick, charcoal-like material, clinker-like material and mortar. Sand is fine to coarse.
	D	0.70				0.60	MADE GROUND: Dark brown grey slightly sandy gravelly clay. Gravel is angular to subrounded fine to coarse concrete, charcoal-like material, brick and flint. Sand is fine to coarse.
	J T	1.40					with a chalk fill between 1.20m and 1.50m depth.
	D	1.50					
	D	2.50				2.30	Red orange mottled light brown grey sandy slightly gravelly silty CLAY. Gravel is angular to rounded fine to coarse flint. Sand is fine to coarse. (Taplow Gravel Member)
	J T	2.60					
						3.00	End of borehole at 3.00m
Remarks							
Groundwater: Borehole dry on completion.							
Stability: Borehole stable on completion.							
Notes: n/a							
Excavation Method:						WLS	
Borehole Diameter:						Various	
Made By:						PC	

ASHDOWN SITE INVESTIGATION L · I · M · I · T · E · D E-mail: contact@ashdownsi.co.uk Web: www.ashdownsi.co.uk Tel: 01273 483119	Site Name: Rear of 112-126 Southampton Street, Reading						
	Job Number: R17-12415						
	Start Date: 04/09/2017		Borehole Number: WS05				
End Date: 04/09/2017					Sheet 1 of 1		
Samples and In Situ Testing							
Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Legend	Depth	Stratum Description
	J T	0.10				0.00	MADE GROUND: Off-white, light brown and red sandy angular to subrounded fine to coarse gravel of concrete, brick, asphalt, charcoal-like material and flint. Sand is fine to coarse.
	D	0.40				0.30	MADE GROUND: Dark brown grey slightly sandy gravelly clay. Gravel is angular to subrounded fine to coarse concrete, charcoal-like material, brick and flint. Sand is fine to coarse.
	J T	0.90					with a sandy concrete layer at 0.90m depth.
	D	1.20					
	J T	1.40					
	D	1.90					
	J T	2.50					
	D	2.70				2.60	Orange brown sandy gravelly silty CLAY. Gravel is angular to rounded fine to coarse flint. Sand is fine to coarse. (Taplow Gravel Member)
						3.00	End of borehole at 3.00m
Remarks							
Groundwater: Borehole dry on completion.							
Stability: Borehole stable on completion.							
Notes: n/a							
Excavation Method: WLS							
Borehole Diameter: Various							
Made By: PC							

ASHDOWN SITE INVESTIGATION LIMITED E-mail: contact@ashdownsi.co.uk Web: www.ashdownsi.co.uk Tel: 01273 483119	Site Name: Rear of 112-126 Southampton Street, Reading					
	Job Number: R17-12415					
	Start Date: 04/09/2017			Borehole Number: WS06		
	End Date: 04/09/2017					
Sheet 1 of 1						
Samples and In Situ Testing						
Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Legend	Depth
	J T	0.20				0.00
	D	0.60				0.50
	J T	1.50				
	D	1.70				
	J T	2.10				
	D	2.50				
	J T	2.90				2.80
						3.00
MADE GROUND: Red, dark brown and white sandy clayey angular to subrounded fine to coarse gravel of brick, concrete, chalk fill, flint, charcoal-like material and clinker-like material. Sand is fine to coarse.						
MADE GROUND: Dark brown grey slightly sandy gravelly clay. Gravel is angular to subrounded fine to coarse concrete, charcoal-like material, brick and flint. Sand is fine to coarse.						
with a chalk fill layer between 1.30m and 1.40m depth.						
MADE GROUND: Orange brown sandy slightly gravelly silty clay. Gravel is angular to rounded fine to medium flint, brick, chalk and charcoal-like material. Sand is fine to coarse.						
End of borehole at 3.00m						
Remarks						
Groundwater: Borehole dry on completion.						Excavation Method: WLS
Stability: Borehole stable on completion.						Borehole Diameter: Various
Notes: n/a						Made By: PC

Site Name: Rear of 112-126 Southampton Street, Reading

Job Number: R17-12415

Start Date: 04/09/2017

End Date: 04/09/2017

Borehole Number: **WS07**

Sheet 1 of 1

Samples and In Situ Testing							
Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Legend	Depth	Stratum Description
	J T	0.10				0.00	MADE GROUND: Off white, red and brown sandy gravelly clay. Gravel is angular to subrounded fine to coarse brick, concrete, charcoal-like material and mortar. Sand is fine to coarse. with a layer of brick at 0.25m depth.
	D J T	0.70 0.80				0.60	MADE GROUND: Dark brown grey slightly sandy gravelly clay. Gravel is angular to subrounded fine to coarse concrete, charcoal-like material, brick and flint. Sand is fine to coarse. with purple slate gravel at 0.80m depth.
	D	1.30					
	J T	1.80				1.70	Orange brown sandy gravelly CLAY. Gravel is angular to rounded fine to coarse flint. (Taplow Gravel Member)
						2.00	End of borehole at 2.00m

Remarks	
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Groundwater: Borehole dry on completion.

Stability: Borehole stable on completion.

Notes: n/a

Excavation Method: WLS

Borehole Diameter: Various

Made By: PC

ASHDOWN SITE INVESTIGATION LIMITED E-mail: contact@ashdownsi.co.uk Web: www.ashdownsi.co.uk Tel: 01273 483119	Site Name: Rear of 112-126 Southampton Street, Reading					
	Job Number: R17-12415					
	Start Date: 04/09/2017			Borehole Number: WS08		
	End Date: 04/09/2017					
Sheet 1 of 1						
Samples and In Situ Testing						
Standpipe	Sample/ Test Type	Depth From (m)	Depth To (m)	Test Result	Legend	Depth
	J T	0.20				0.00
	D	0.40				
	J T	0.90				
	J T	1.50				1.30
	D	1.80				
						1.70
						2.00
						End of borehole at 2.00m
Remarks Groundwater: Borehole dry on completion. Stability: Borehole stable on completion. Notes: n/a						Excavation Method: WLS
						Borehole Diameter: Various
						Made By: PC

Appendix B
Laboratory Test Results



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618
Facsimile: (01424) 729911
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 17-13872

Issue: 2

Date of Issue: 12/09/2017

Contact: David Harris

Customer Details: Ashdown Site Investigation Ltd
The Old Dairy
Swanborough Farm
Lewes
East Sussex BN7 3PF

Quotation No: Q15-00267

Order No: P17-5219

Customer Reference: R17-12415

Date Received: 05/09/2017

Date Approved: 12/09/2017

Details: Rear of 112-126 Southampton Street, Reading

Approved by:

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 17-13872

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
111049	WS01 0.20	04/09/2017	05/09/2017	Loamy sand + brick	
111050	WS01 0.80	04/09/2017	05/09/2017	Silty loam	
111051	WS01 1.80	04/09/2017	05/09/2017	Sandy loam	
111052	WS02 0.30	04/09/2017	05/09/2017	Sandy loam	
111053	WS02 0.90	04/09/2017	05/09/2017	Sandy silty loam	
111054	WS02 1.70	04/09/2017	05/09/2017	Loamy sand	
111055	WS03 0.20	04/09/2017	05/09/2017	Sandy silty loam	
111056	WS03 1.10	04/09/2017	05/09/2017	Sandy silty loam	
111057	WS03 1.80	04/09/2017	05/09/2017	Sandy silty loam	
111058	WS04 0.10	04/09/2017	05/09/2017	Sand + brick	
111059	WS04 1.40	04/09/2017	05/09/2017	Silty loam	
111060	WS04 2.60	04/09/2017	05/09/2017	Silty loam	
111061	WS05 0.10	04/09/2017	05/09/2017	Sandy silty loam	
111062	WS05 0.90	04/09/2017	05/09/2017	Sandy silty loam	
111063	WS05 1.40	04/09/2017	05/09/2017		
111064	WS05 2.50	04/09/2017	05/09/2017		
111065	WS06 0.20	04/09/2017	05/09/2017	Sandy loam	
111066	WS06 1.50	04/09/2017	05/09/2017	Sandy silty loam	
111067	WS06 2.10	04/09/2017	05/09/2017		
111068	WS06 2.90	04/09/2017	05/09/2017		
111069	WS07 0.10	04/09/2017	05/09/2017	Sandy loam	
111070	WS07 0.80	04/09/2017	05/09/2017	Sand	
111071	WS07 1.80	04/09/2017	05/09/2017		
111072	WS08 0.20	04/09/2017	05/09/2017	Silty loam	
111073	WS08 0.90	04/09/2017	05/09/2017	Loamy sand + brick	
111074	WS08 1.50	04/09/2017	05/09/2017		

Results Summary

Report No.: 17-13872

ELAB Reference	111049	111050	111051	111052	111053	111054
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS01	WS01	WS01	WS02	WS02	WS02
Sample Depth (m)	0.20	0.80	1.80	0.30	0.90	1.70
Sampling Date	04/09/2017	04/09/2017	04/09/2017	04/09/2017	04/09/2017	04/09/2017

Determinand	Codes	Units	LOD						
Metals									
Arsenic	M	mg/kg	1	^ 7.6	n/t	n/t	8.0	n/t	n/t
Cadmium	M	mg/kg	0.5	^ 0.6	n/t	n/t	< 0.5	n/t	n/t
Chromium	M	mg/kg	5	^ 15.6	n/t	n/t	19.8	n/t	n/t
Copper	M	mg/kg	5	^ 14.8	n/t	n/t	12.9	n/t	n/t
Lead	M	mg/kg	5	^ 159	n/t	n/t	217	n/t	n/t
Mercury	M	mg/kg	0.5	^ < 0.5	n/t	n/t	0.5	n/t	n/t
Nickel	M	mg/kg	5	^ 8.9	n/t	n/t	10.0	n/t	n/t
Selenium	M	mg/kg	1	^ < 1.0	n/t	n/t	< 1.0	n/t	n/t
Zinc	M	mg/kg	5	^ 92.5	n/t	n/t	121	n/t	n/t
Inorganics									
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t	n/t	< 0.8	n/t	n/t
Acid Soluble Sulphate (SO4)	U	%	0.02	0.10	n/t	n/t	0.09	n/t	n/t
Water Soluble Boron	N	mg/kg	0.5	0.8	n/t	n/t	0.8	n/t	n/t
Miscellaneous									
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	n/t	< 0.1	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	n/t	n/t	1.91	n/t	n/t
Moisture Content	N	%	0.1	12.9	n/t	n/t	11.4	n/t	n/t
pH	M	pH units	0.1	^ 7.6	n/t	n/t	8.9	n/t	n/t
Soil Organic Matter	U	%	0.1	3.1	n/t	n/t	3.9	n/t	n/t
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t	1.2	n/t	n/t
Organics									
>C8-C10 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 BCB	N	mg/kg	1	2.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 BCB	N	mg/kg	1	16.9	< 1.0	7.9	3.4	1.2	< 1.0
>C21-C35 BCB	N	mg/kg	1	75.9	4.0	181	12.2	4.3	2.0
>C35-C40 BCB	N	mg/kg	1	6.9	< 1.0	9.8	1.2	< 1.0	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	102	4.0	199	16.8	5.5	2.0
Polyaromatic hydrocarbons									
Naphthalene	M	mg/kg	0.1	^ 0.2	n/t	n/t	< 0.1	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	^ 0.7	n/t	n/t	< 0.1	n/t	n/t
Acenaphthene	M	mg/kg	0.1	^ 2.7	n/t	n/t	0.3	n/t	n/t
Fluorene	M	mg/kg	0.1	^ 2.7	n/t	n/t	0.3	n/t	n/t
Phenanthrene	M	mg/kg	0.1	^ 23.2	n/t	n/t	1.9	n/t	n/t
Anthracene	M	mg/kg	0.1	^ 9.1	n/t	n/t	0.7	n/t	n/t
Fluoranthene	M	mg/kg	0.1	^ 55.1	n/t	n/t	3.7	n/t	n/t
Pyrene	M	mg/kg	0.1	^ 44.3	n/t	n/t	2.9	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	^ 29.9	n/t	n/t	1.9	n/t	n/t
Chrysene	M	mg/kg	0.1	^ 27.5	n/t	n/t	1.8	n/t	n/t
Benzo (b) fluoranthene	M	mg/kg	0.1	^ 27.0	n/t	n/t	1.5	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	^ 25.1	n/t	n/t	1.7	n/t	n/t
Benzo (a) pyrene	M	mg/kg	0.1	^ 27.4	n/t	n/t	1.7	n/t	n/t
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.1	^ 18.5	n/t	n/t	1.0	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	^ 5.7	n/t	n/t	0.3	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	^ 16.5	n/t	n/t	1.0	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	^ 316	n/t	n/t	20.6	n/t	n/t
Total PAH (Including Coronene)	N	mg/kg	2	n/t	n/t	n/t	21	n/t	n/t
BTEX									
Total BTEX	M	mg/kg	0.01	n/t	n/t	n/t	< 0.01	n/t	n/t



Results Summary

Report No.: 17-13872

ELAB Reference	111049	111050	111051	111052	111053	111054
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS01	WS01	WS01	WS02	WS02	WS02
Sample Depth (m)	0.20	0.80	1.80	0.30	0.90	1.70
Sampling Date	04/09/2017	04/09/2017	04/09/2017	04/09/2017	04/09/2017	04/09/2017

Determinand	Codes	Units	LOD						
Total Petroleum Hydrocarbons									
Mineral Oil	U	mg/kg	5	n/t	n/t	n/t	33	n/t	n/t
Total TPH (>C8-C40)	M	mg/kg	5	n/t	< 5	207	n/t	< 5	< 5
PCB (ICES 7 congeners)									
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	n/t	n/t	0.26	n/t	n/t

Results Summary

Report No.: 17-13872

ELAB Reference	111055	111056	111057	111058	111059	111060
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS03	WS03	WS03	WS04	WS04	WS04
Sample Depth (m)	0.20	1.10	1.80	0.10	1.40	2.60
Sampling Date	04/09/2017	04/09/2017	04/09/2017	04/09/2017	04/09/2017	04/09/2017

Determinand	Codes	Units	LOD						
Metals									
Arsenic	M	mg/kg	1	14.2	n/t	n/t	^ 9.4	n/t	n/t
Cadmium	M	mg/kg	0.5	0.8	n/t	n/t	^ < 0.5	n/t	n/t
Chromium	M	mg/kg	5	20.6	n/t	n/t	^ 22.6	n/t	n/t
Copper	M	mg/kg	5	19.5	n/t	n/t	^ 19.4	n/t	n/t
Lead	M	mg/kg	5	202	n/t	n/t	^ 192	n/t	n/t
Mercury	M	mg/kg	0.5	< 0.5	n/t	n/t	^ < 0.5	n/t	n/t
Nickel	M	mg/kg	5	9.0	n/t	n/t	^ 14.3	n/t	n/t
Selenium	M	mg/kg	1	1.2	n/t	n/t	^ < 1.0	n/t	n/t
Zinc	M	mg/kg	5	125	n/t	n/t	^ 60.1	n/t	n/t
Inorganics									
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t	n/t	< 0.8	n/t	n/t
Acid Soluble Sulphate (SO4)	U	%	0.02	0.17	n/t	n/t	0.17	n/t	n/t
Water Soluble Boron	N	mg/kg	0.5	1.3	n/t	n/t	0.8	n/t	n/t
Miscellaneous									
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	n/t	n/t	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Moisture Content	N	%	0.1	9.6	n/t	n/t	13.0	n/t	n/t
pH	M	pH units	0.1	9.3	n/t	n/t	^ 10.8	n/t	n/t
Soil Organic Matter	U	%	0.1	5.7	n/t	n/t	2.8	n/t	n/t
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t	n/t	n/t	n/t
Organics									
>C8-C10 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 BCB	N	mg/kg	1	2.3	< 1.0	< 1.0	1.9	< 1.0	< 1.0
>C16-C21 BCB	N	mg/kg	1	25.8	1.4	< 1.0	13.4	< 1.0	< 1.0
>C21-C35 BCB	N	mg/kg	1	112	4.8	5.0	89.4	3.1	3.9
>C35-C40 BCB	N	mg/kg	1	9.3	< 1.0	< 1.0	90.1	< 1.0	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	149	6.2	5.0	195	3.1	3.9
Polyaromatic hydrocarbons									
Naphthalene	M	mg/kg	0.1	0.9	n/t	n/t	^ < 0.1	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	1.2	n/t	n/t	^ < 0.1	n/t	n/t
Acenaphthene	M	mg/kg	0.1	5.1	n/t	n/t	^ < 0.1	n/t	n/t
Fluorene	M	mg/kg	0.1	3.5	n/t	n/t	^ < 0.1	n/t	n/t
Phenanthrene	M	mg/kg	0.1	78.7	n/t	n/t	^ 0.4	n/t	n/t
Anthracene	M	mg/kg	0.1	23.2	n/t	n/t	^ 0.1	n/t	n/t
Fluoranthene	M	mg/kg	0.1	127	n/t	n/t	^ 0.9	n/t	n/t
Pyrene	M	mg/kg	0.1	98.7	n/t	n/t	^ 0.9	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	64.3	n/t	n/t	^ 0.7	n/t	n/t
Chrysene	M	mg/kg	0.1	61.3	n/t	n/t	^ 0.9	n/t	n/t
Benzo (b) fluoranthene	M	mg/kg	0.1	57.1	n/t	n/t	^ 0.6	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	48.1	n/t	n/t	^ 0.9	n/t	n/t
Benzo (a) pyrene	M	mg/kg	0.1	54.5	n/t	n/t	^ 0.9	n/t	n/t
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.1	36.4	n/t	n/t	^ 0.9	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	11.6	n/t	n/t	^ < 0.1	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	31.1	n/t	n/t	^ 0.5	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	702	n/t	n/t	^ 7.9	n/t	n/t
Total PAH (Including Coronene)	N	mg/kg	2	n/t	n/t	n/t	n/t	n/t	n/t
BTEX									
Total BTEX	M	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t



Results Summary

Report No.: 17-13872

ELAB Reference	111055	111056	111057	111058	111059	111060
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS03	WS03	WS03	WS04	WS04	WS04
Sample Depth (m)	0.20	1.10	1.80	0.10	1.40	2.60
Sampling Date	04/09/2017	04/09/2017	04/09/2017	04/09/2017	04/09/2017	04/09/2017

Determinand	Codes	Units	LOD						
Total Petroleum Hydrocarbons									
Mineral Oil	U	mg/kg	5	n/t	n/t	n/t	n/t	n/t	n/t
Total TPH (>C8-C40)	M	mg/kg	5	n/t	< 5	< 5	n/t	< 5	< 5
PCB (ICES 7 congeners)									
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 17-13872

ELAB Reference	111061	111062	111065	111066	111069	111070
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS05	WS05	WS06	WS06	WS07	WS07
Sample Depth (m)	0.10	0.90	0.20	1.50	0.10	0.80
Sampling Date	04/09/2017	04/09/2017	04/09/2017	04/09/2017	04/09/2017	04/09/2017

Determinand	Codes	Units	LOD						
Metals									
Arsenic	M	mg/kg	1	13.9	n/t	13.0	n/t	19.8	n/t
Cadmium	M	mg/kg	0.5	< 0.5	n/t	1.3	n/t	< 0.5	n/t
Chromium	M	mg/kg	5	17.9	n/t	18.9	n/t	29.1	n/t
Copper	M	mg/kg	5	23.1	n/t	18.9	n/t	27.5	n/t
Lead	M	mg/kg	5	126	n/t	477	n/t	94.6	n/t
Mercury	M	mg/kg	0.5	< 0.5	n/t	< 0.5	n/t	< 0.5	n/t
Nickel	M	mg/kg	5	17.0	n/t	16.0	n/t	27.5	n/t
Selenium	M	mg/kg	1	< 1.0	n/t	< 1.0	n/t	< 1.0	n/t
Zinc	M	mg/kg	5	82.9	n/t	891	n/t	192	n/t
Inorganics									
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t	< 0.8	n/t	< 0.8	n/t
Acid Soluble Sulphate (SO4)	U	%	0.02	0.08	n/t	0.14	n/t	0.09	n/t
Water Soluble Boron	N	mg/kg	0.5	1.0	n/t	0.9	n/t	1.0	n/t
Miscellaneous									
Acid Neutralisation Capacity	N	mol/kg	0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	3.05	n/t	n/t	n/t	n/t	n/t
Moisture Content	N	%	0.1	15.0	n/t	14.6	n/t	11.1	n/t
pH	M	pH units	0.1	8.3	n/t	6.5	n/t	8.4	n/t
Soil Organic Matter	U	%	0.1	1.9	n/t	4.2	n/t	2.8	n/t
Total Organic Carbon	N	%	0.01	2.8	n/t	n/t	n/t	n/t	n/t
Organics									
>C8-C10 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0	< 1.0	2.7	< 1.0	2.2	< 1.0
>C16-C21 BCB	N	mg/kg	1	2.5	< 1.0	21.9	< 1.0	18.7	< 1.0
>C21-C35 BCB	N	mg/kg	1	21.6	7.3	84.4	3.2	90.0	3.2
>C35-C40 BCB	N	mg/kg	1	2.5	< 1.0	7.2	< 1.0	7.7	< 1.0
Total (>C8-C40) BCB	N	mg/kg	1	26.6	7.3	116	3.2	119	3.2
Polyaromatic hydrocarbons									
Naphthalene	M	mg/kg	0.1	< 0.1	n/t	0.1	n/t	0.5	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	n/t	0.6	n/t	5.2	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	n/t	2.1	n/t	2.0	n/t
Fluorene	M	mg/kg	0.1	< 0.1	n/t	1.6	n/t	2.0	n/t
Phenanthrene	M	mg/kg	0.1	1.5	n/t	20.7	n/t	33.5	n/t
Anthracene	M	mg/kg	0.1	0.3	n/t	6.6	n/t	12.5	n/t
Fluoranthene	M	mg/kg	0.1	3.5	n/t	39.8	n/t	105	n/t
Pyrene	M	mg/kg	0.1	2.9	n/t	32.3	n/t	89.1	n/t
Benzo(a)anthracene	M	mg/kg	0.1	1.6	n/t	21.8	n/t	63.7	n/t
Chrysene	M	mg/kg	0.1	2.0	n/t	22.0	n/t	61.3	n/t
Benzo (b) fluoranthene	M	mg/kg	0.1	2.1	n/t	22.1	n/t	69.3	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	2.0	n/t	19.4	n/t	58.1	n/t
Benzo (a) pyrene	M	mg/kg	0.1	1.9	n/t	21.2	n/t	67.1	n/t
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.1	1.4	n/t	14.5	n/t	47.0	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.4	n/t	4.6	n/t	13.5	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	1.5	n/t	12.8	n/t	41.7	n/t
Total PAH(16)	M	mg/kg	0.4	21.5	n/t	242	n/t	671	n/t
Total PAH (Including Coronene)	N	mg/kg	2	22	n/t	n/t	n/t	n/t	n/t
BTEX									
Total BTEX	M	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t	n/t



Results Summary

Report No.: 17-13872

ELAB Reference	111061	111062	111065	111066	111069	111070
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS05	WS05	WS06	WS06	WS07	WS07
Sample Depth (m)	0.10	0.90	0.20	1.50	0.10	0.80
Sampling Date	04/09/2017	04/09/2017	04/09/2017	04/09/2017	04/09/2017	04/09/2017

Determinand	Codes	Units	LOD						
Total Petroleum Hydrocarbons									
Mineral Oil	U	mg/kg	5	22	n/t	n/t	n/t	n/t	n/t
Total TPH (>C8-C40)	M	mg/kg	5	n/t	< 5	n/t	< 5	322	< 5
PCB (ICES 7 congeners)									
PCB (Total of 7 Congeners)	M	mg/kg	0.03	< 0.03	n/t	n/t	n/t	n/t	n/t

Results Summary

Report No.: 17-13872

ELAB Reference	111072	111073
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	WS08	WS08
Sample Depth (m)	0.20	0.90
Sampling Date	04/09/2017	04/09/2017

Determinand	Codes	Units	LOD		
Metals					
Arsenic	M	mg/kg	1	30.4	n/t
Cadmium	M	mg/kg	0.5	0.7	n/t
Chromium	M	mg/kg	5	24.8	n/t
Copper	M	mg/kg	5	91.4	n/t
Lead	M	mg/kg	5	590	n/t
Mercury	M	mg/kg	0.5	3.2	n/t
Nickel	M	mg/kg	5	37.1	n/t
Selenium	M	mg/kg	1	1.9	n/t
Zinc	M	mg/kg	5	291	n/t
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t
Acid Soluble Sulphate (SO4)	U	%	0.02	0.13	n/t
Water Soluble Boron	N	mg/kg	0.5	2.6	n/t
Miscellaneous					
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	n/t
Moisture Content	N	%	0.1	19.0	n/t
pH	M	pH units	0.1	7.6	n/t
Soil Organic Matter	U	%	0.1	5.2	n/t
Total Organic Carbon	N	%	0.01	n/t	n/t
Organics					
>C8-C10 BCB	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0	< 1.0
>C16-C21 BCB	N	mg/kg	1	< 1.0	1.4
>C21-C35 BCB	N	mg/kg	1	3.0	1.1
>C35-C40 BCB	N	mg/kg	1	< 1.0	1.4
Total (>C8-C40) BCB	N	mg/kg	1	3.0	3.9
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	n/t
Acenaphthylene	M	mg/kg	0.1	< 0.1	n/t
Acenaphthene	M	mg/kg	0.1	< 0.1	n/t
Fluorene	M	mg/kg	0.1	< 0.1	n/t
Phenanthrene	M	mg/kg	0.1	0.7	n/t
Anthracene	M	mg/kg	0.1	0.2	n/t
Fluoranthene	M	mg/kg	0.1	1.6	n/t
Pyrene	M	mg/kg	0.1	1.4	n/t
Benzo(a)anthracene	M	mg/kg	0.1	1.0	n/t
Chrysene	M	mg/kg	0.1	1.4	n/t
Benzo (b) fluoranthene	M	mg/kg	0.1	1.2	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	1.5	n/t
Benzo (a) pyrene	M	mg/kg	0.1	1.4	n/t
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.1	1.9	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.5	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.9	n/t
Total PAH(16)	M	mg/kg	0.4	13.9	n/t
Total PAH (Including Coronene)	N	mg/kg	2	n/t	n/t
BTEX					
Total BTEX	M	mg/kg	0.01	n/t	n/t



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Results Summary

Report No.: 17-13872

ELAB Reference	111072	111073
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	WS08	WS08
Sample Depth (m)	0.20	0.90
Sampling Date	04/09/2017	04/09/2017

Determinand	Codes	Units	LOD		
Total Petroleum Hydrocarbons					
Mineral Oil	U	mg/kg	5	n/t	n/t
Total TPH (>C8-C40)	M	mg/kg	5	n/t	^ < 5
PCB (ICES 7 congeners)					
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	n/t

Results Summary

Report No.: 17-13872

ELAB Reference	111050	111052	111056	111058
Customer Reference				
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	WS01	WS02	WS03	WS04
Sample Depth (m)	0.80	0.30	1.10	0.10
Sampling Date	04/09/2017	04/09/2017	04/09/2017	04/09/2017

Determinand	Codes	Units	LOD				
VOC							
Heptane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Octane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Nonane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
m+p-xylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
o-xylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
cis-1,2-dichloroethene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
1,1-Dichloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
Chloroform	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
Tetrachloromethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
1,1,1-Trichloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
Trichloroethylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
Tetrachloroethylene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
1,1,1,2-Tetrachloroethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
1,1,2,2-Tetrachloroetha	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
Chlorobenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
Bromobenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
Bromodichloromethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
Methylethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
1,1-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
Trans - 1-2 -dichloroethylene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
2,2-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Bromochloromethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dichloroethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Dibromomethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
1,2-Dichloropropane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
cis-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
trans-1,3-Dichloro-1-propene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
1,1,2-Trichloroethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Dibromochloromethane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
1,3-Dichloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
1,2-dibromoethane	M	ug/kg	10	< 10.0	< 10.0	< 10.0	^ < 10.0
Styrene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Propylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
2-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
1,2,4-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
4-Chlorotoluene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
t-butylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
1,3,5-Trimethylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
1-methylpropylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
o-cymene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
1,3-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Butylbenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dibromo-3-chloropropane	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Hexachlorobutadiene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
1,2,4-Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Naphthalene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
1,2,3-Trichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
1,4-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
1,2-Dichlorobenzene	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Bromoform	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0

Tests marked N are not UKAS accredited.
The Environmental Laboratory Ltd. Reg. No. 3882193

Results Summary

Report No.: 17-13872

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WAC Analysis

Elab Ref:	111061					Landfill Waste Acceptance Criteria Limits		
Sample Date:	04/09/2017					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	WS05							
Depth (m)	0.1							
Site:	Rear of 112-126 Southampton Street, Reading							
Determinand		Code	Units					
Total Organic Carbon		N	%		2.80	3	5	6
Loss on Ignition		M	%		3.1	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC		M	mg/kg		22	500	--	--
Total (of 17) PAHs		N	mg/kg		22.0	100	--	--
pH		M			8.3	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

		10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
		mg/l	mg/kg			
Arsenic	N	0.014	0.14	0.5	2	25
Barium	N	< 0.005	< 0.05	20	100	300
Cadmium	N	< 0.001	< 0.01	0.04	1	5
Chromium	N	< 0.005	< 0.05	0.5	10	70
Copper	N	< 0.005	< 0.05	2	50	100
Mercury	N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum	N	< 0.005	< 0.05	0.5	10	30
Nickel	N	0.002	< 0.05	0.4	10	40
Lead	N	0.001	< 0.05	0.5	10	50
Antimony	N	< 0.005	< 0.05	0.06	0.7	5
Selenium	N	< 0.005	< 0.05	0.1	0.5	7
Zinc	N	< 0.005	< 0.05	4	50	200
Chloride	N	10	104.00	800	15000	25000
Fluoride	N	< 5	< 10	10	150	500
Sulphate	N	8	76.70	1000	20000	50000
Total Dissolved Solids	N	130	1300.00	4000	60000	100000
Phenol Index	N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon	N	16.700	167.00	500	800	1000

Leach Test Information

pH	N	7.9					
Conductivity (uS/cm)	N	136					
Dry mass of test portion (g)		101.000					
Dry Matter (%)		88					
Moisture (%)		14					
Eluent Volume (ml)		954					

Results are expressed on a dry weight basis, after correction for moisture content where applicable

Stated limits are for guidance only and ELAB cannot be held responsible for any discrepancies with current legislation

Results Summary

Report No.: 17-13872

2683

WAC Analysis

Elab Ref:	111052					Landfill Waste Acceptance Criteria Limits		
Sample Date:	04/09/2017					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	WS02							
Depth (m)	0.3							
Site:	Rear of 112-126 Southampton Street, Reading							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.20	3	5	6
Loss on Ignition		M	%		1.9	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		0.26	1	--	--
TPH Total WAC		M	mg/kg		33	500	--	--
Total (of 17) PAHs		N	mg/kg		21.0	100	--	--
pH		M			8.9	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	0.041	0.41	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	0.002	< 0.05	0.4	10	40
Lead		N	0.009	0.09	0.5	10	50
Antimony		N	0.006	0.06	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	< 5	< 50	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	9	86.00	1000	20000	50000
Total Dissolved Solids		N	100	1000.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	12.700	127.00	500	800	1000

Leach Test Information

pH		N	8.4				
Conductivity (uS/cm)		N	131				
Dry mass of test portion (g)			100.000				
Dry Matter (%)			91				
Moisture (%)			10				
Eluent Volume (ml)			968				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

Stated limits are for guidance only and ELAB cannot be held responsible for any discrepancies with current legislation

Results Summary

Report No.: 17-13872

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
111049	0.20	WS01	Brown soil and Crushed concrete and bick,stones	No asbestos detected	n/t	n/t	n/t	n/t
111052	0.30	WS02	Brown sandy soil and Crushed ,concrete,Brick	No asbestos detected	n/t	n/t	n/t	n/t
111055	0.20	WS03	Brown sandy soil with stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
111058	0.10	WS04	Brown Sandy soil,Stones,Brick	No asbestos detected	n/t	n/t	n/t	n/t
111061	0.10	WS05	Brown soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
111065	0.20	WS06	Brown soil,Stones,Brick,Clinker	No asbestos detected	n/t	n/t	n/t	n/t
111072	0.20	WS08	Brown soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 17-13872

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	07/09/2017	110	Colorimetry
Acid Soluble Sulphate	U	Air dried sample	11/09/2017	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	08/09/2017	118	ICPMS
PAH (GC-FID)	M	As submitted sample	06/09/2017	133	GC-FID
VOC in solids	M	As submitted sample	06/09/2017	181	GC-MS
Water soluble boron	N	Air dried sample	08/09/2017	202	Colorimetry
Basic carbon banding in soil	N	As submitted sample	06/09/2017	218	GC-FID
Soil organic matter	U	Air dried sample	08/09/2017	BS1377:P3	Titrimetry
Asbestos identification	U	As submitted sample	07/09/2017	PMAN	Microscopy
Leachate					
Arsenic*	N		11/09/2017	101	ICPMS
Cadmium*	N		11/09/2017	101	ICPMS
Chromium*	N		11/09/2017	101	ICPMS
Lead*	N		11/09/2017	101	ICPMS
Nickel*	N		11/09/2017	101	ICPMS
Copper*	N		11/09/2017	101	ICPMS
Zinc*	N		11/09/2017	101	ICPMS
Mercury*	N		11/09/2017	101	ICPMS
Selenium*	N		11/09/2017	101	ICPMS
Antimony	N		11/09/2017	101	ICPMS
Barium*	N		11/09/2017	101	ICPMS
Molybdenum*	N		11/09/2017	101	ICPMS
pH Value*	N		11/09/2017	113	Electrometric
Electrical Conductivity*	N		11/09/2017	136	Probe
Dissolved Organic Carbon	N		11/09/2017	102	TOC analyser
Chloride*	N		11/09/2017	131	Ion Chromatography
Fluoride*	N		11/09/2017	131	Ion Chromatography
Sulphate*	N		11/09/2017	131	Ion Chromatography
Total Dissolved Solids	N		11/09/2017	144	Gravimetric
Phenol index	N		11/09/2017	121	HPLC
WAC Solids analysis	N				
pH Value**	M	Air dried sample	08/09/2017	113	Electrometric
Total Organic Carbon	N	Air dried sample	08/09/2017	210	IR
Loss on Ignition**	M	Air dried sample	11/09/2017	129	Gravimetric
Acid Neutralization Capacity to pH 7	N	Air dried sample	08/09/2017	NEN 737	Electrometric
Total BTEX**	M	As submitted sample	07/09/2017	181	GCMS
Mineral Oil**	M	As submitted sample	06/09/2017	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	07/09/2017	120	GCMS
Total PAH (17)**	N	As submitted sample	07/09/2017	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 17-13872

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage

Appendix C
Hazwaste Online Output Sheets

Waste Classification Report



URADJ-KG3E5-DP7EJ

Job name

R17-12415 Rear of 112-126 Southampton Street, Reading

Description/Comments

Made ground soils

Project

R17-12415

Site

Rear of 112-126 Southampton Street, Reading

Waste Stream Template

ASI WM3 1.1

Classified by

Name:
Stuart Card
Date:
27/09/2017 11:28:34 UTC
Telephone:
01273 483119

Company:
Ashdown Site Investigation Limited
The Old Dairy
Swanborough Farm, Swanborough
Lewes
BN7 3PF

Report

Created by: Stuart Card
Created date: 27/09/2017 11:28 UTC

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	WS01	0.20	Hazardous	HP 14	2
2	WS02	0.30	Non Hazardous		4
3	WS03	0.20	Hazardous	HP 14	6
4	WS04	0.10	Non Hazardous		8
5	WS05	0.10	Non Hazardous		10
6	WS06	0.20	Non Hazardous		12
7	WS07	0.10	Hazardous	HP 14	14
8	WS08	0.20	Non Hazardous		16

Appendices

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Appendix A: Classifier defined and non CLP determinands	18
Appendix B: Rationale for selection of metal species	19
Appendix C: Version	20

Classification of sample: WS01

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS01	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
0.20 m	
Moisture content:	
12.9%	
(no correction)	

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R52/53 "Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

benzo[a]anthracene: (conc.: 0.00299%)

Determinands

Moisture content: **12.9%** No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				7.6 pH		7.6	pH	7.6 pH		
2	arsenic { arsenic trioxide }				7.6 mg/kg	1.32	10.034	mg/kg	0.001 %		
	033-003-00-0	215-481-4	1327-53-3								
3	boron { boron tribromide/trichloride/trifluoride (combined) }				0.8 mg/kg	13.43	10.744	mg/kg	0.00107 %		
			10294-33-4, 10294-34-5, 7637-07-2								
4	cadmium { cadmium sulfide }			1	0.6 mg/kg	1.285	0.771	mg/kg	0.00006 %		
	048-010-00-4	215-147-8	1306-23-6								
5	chromium in chromium(III) compounds { chromium(III) oxide }				15.6 mg/kg	1.462	22.8	mg/kg	0.00228 %		
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.8 mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
7	copper { copper sulphate pentahydrate }				14.8 mg/kg	3.929	58.15	mg/kg	0.00581 %		
	029-023-00-4	231-847-6	7758-99-8								
8	lead { lead chromate }			1	159 mg/kg	1.56	248.011	mg/kg	0.0159 %		
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	nickel { nickel chromate }				8.9 mg/kg	2.976	26.489	mg/kg	0.00265 %		
	028-035-00-7	238-766-5	14721-18-7								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
12	zinc { zinc sulphate }				92.5 mg/kg	2.469	228.41 mg/kg	0.0228 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
13	naphthalene				0.2 mg/kg		0.2 mg/kg	0.00002 %			
	601-052-00-2	202-049-5	91-20-3								
14	acenaphthylene				0.7 mg/kg		0.7 mg/kg	0.00007 %			
		205-917-1	208-96-8								
15	acenaphthene				2.7 mg/kg		2.7 mg/kg	0.00027 %			
		201-469-6	83-32-9								
16	fluorene				2.7 mg/kg		2.7 mg/kg	0.00027 %			
		201-695-5	86-73-7								
17	phenanthrene				23.2 mg/kg		23.2 mg/kg	0.00232 %			
		201-581-5	85-01-8								
18	anthracene				9.1 mg/kg		9.1 mg/kg	0.00091 %			
		204-371-1	120-12-7								
19	fluoranthene				55.1 mg/kg		55.1 mg/kg	0.00551 %			
		205-912-4	206-44-0								
20	pyrene				44.3 mg/kg		44.3 mg/kg	0.00443 %			
		204-927-3	129-00-0								
21	benzo[a]anthracene				29.9 mg/kg		29.9 mg/kg	0.00299 %			
	601-033-00-9	200-280-6	56-55-3								
22	chrysene				27.5 mg/kg		27.5 mg/kg	0.00275 %			
	601-048-00-0	205-923-4	218-01-9								
23	benzo[b]fluoranthene				27 mg/kg		27 mg/kg	0.0027 %			
	601-034-00-4	205-911-9	205-99-2								
24	benzo[k]fluoranthene				25.1 mg/kg		25.1 mg/kg	0.00251 %			
	601-036-00-5	205-916-6	207-08-9								
25	benzo[a]pyrene; benzo[def]chrysene				27.4 mg/kg		27.4 mg/kg	0.00274 %			
	601-032-00-3	200-028-5	50-32-8								
26	indeno[123-cd]pyrene				18.5 mg/kg		18.5 mg/kg	0.00185 %			
		205-893-2	193-39-5								
27	dibenz[a,h]anthracene				5.7 mg/kg		5.7 mg/kg	0.00057 %			
	601-041-00-2	200-181-8	53-70-3								
28	benzo[ghi]perylene				16.5 mg/kg		16.5 mg/kg	0.00165 %			
		205-883-8	191-24-2								
29	TPH (C6 to C40) petroleum group				102 mg/kg		102 mg/kg	0.0102 %			
			TPH								
Total:									0.0939 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because No free product identified in sample. TPH in soil unlikely to be flammable at reported concentration.**

Classification of sample: WS02

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	WS02	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.30 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	
Moisture content:	11.4% (no correction)			

Hazard properties

None identified

Determinands

Moisture content: 11.4% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number					
1	pH				8.9 pH	8.9 pH		
2	arsenic { arsenic trioxide }				8 mg/kg	1.32	10.563 mg/kg	0.00106 %
	033-003-00-0	215-481-4	1327-53-3					
3	boron { boron tribromide/trichloride/trifluoride (combined) }				0.8 mg/kg	13.43	10.744 mg/kg	0.00107 %
			10294-33-4, 10294-34-5, 7637-07-2					
4	cadmium { cadmium sulfide }	1			<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %
	048-010-00-4	215-147-8	1306-23-6					<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide }				19.8 mg/kg	1.462	28.939 mg/kg	0.00289 %
		215-160-9	1308-38-9					
6	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %
	024-001-00-0	215-607-8	1333-82-0					<LOD
7	copper { copper sulphate pentahydrate }				12.9 mg/kg	3.929	50.685 mg/kg	0.00507 %
	029-023-00-4	231-847-6	7758-99-8					
8	lead { lead chromate }	1			217 mg/kg	1.56	338.48 mg/kg	0.0217 %
	082-004-00-2	231-846-0	7758-97-6					
9	mercury { mercury dichloride }				0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %
	080-010-00-X	231-299-8	7487-94-7					
10	nickel { nickel chromate }				10 mg/kg	2.976	29.763 mg/kg	0.00298 %
	028-035-00-7	238-766-5	14721-18-7					
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %
	034-002-00-8							<LOD
12	zinc { zinc sulphate }				121 mg/kg	2.469	298.785 mg/kg	0.0299 %
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]					

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
14	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
15	acenaphthene				0.3 mg/kg		0.3 mg/kg	0.00003 %		
		201-469-6	83-32-9							
16	fluorene				0.3 mg/kg		0.3 mg/kg	0.00003 %		
		201-695-5	86-73-7							
17	phenanthrene				1.9 mg/kg		1.9 mg/kg	0.00019 %		
		201-581-5	85-01-8							
18	anthracene				0.7 mg/kg		0.7 mg/kg	0.00007 %		
		204-371-1	120-12-7							
19	fluoranthene				3.7 mg/kg		3.7 mg/kg	0.00037 %		
		205-912-4	206-44-0							
20	pyrene				2.9 mg/kg		2.9 mg/kg	0.00029 %		
		204-927-3	129-00-0							
21	benzo[a]anthracene				1.9 mg/kg		1.9 mg/kg	0.00019 %		
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				1.8 mg/kg		1.8 mg/kg	0.00018 %		
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				1.5 mg/kg		1.5 mg/kg	0.00015 %		
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				1.7 mg/kg		1.7 mg/kg	0.00017 %		
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				1.7 mg/kg		1.7 mg/kg	0.00017 %		
	601-032-00-3	200-028-5	50-32-8							
26	indeno[123-cd]pyrene				1 mg/kg		1 mg/kg	0.0001 %		
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				0.3 mg/kg		0.3 mg/kg	0.00003 %		
	601-041-00-2	200-181-8	53-70-3							
28	benzo[ghi]perylene				1 mg/kg		1 mg/kg	0.0001 %		
		205-883-8	191-24-2							
29	TPH (C6 to C40) petroleum group				16.8 mg/kg		16.8 mg/kg	0.00168 %		
			TPH							
Total:								0.0689 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
No free product identified in sample. TPH in soil unlikely to be flammable at reported concentration.

Classification of sample: WS03

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	WS03	LoW Code:	
Sample Depth:	0.20 m	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	9.6% (no correction)	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R52/53 "Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

benzo[a]anthracene: (conc.: 0.00643%)

Determinands

Moisture content: 9.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				9.3 pH		9.3	pH	9.3 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	14.2 mg/kg	1.32	18.749	mg/kg	0.00187 %		
3	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		1.3 mg/kg	13.43	17.459	mg/kg	0.00175 %		
4	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	0.8 mg/kg	1.285	1.028	mg/kg	0.00008 %		
5	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		20.6 mg/kg	1.462	30.108	mg/kg	0.00301 %		
6	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.8 mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<LOD
7	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8	19.5 mg/kg	3.929	76.617	mg/kg	0.00766 %		
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	202 mg/kg	1.56	315.083	mg/kg	0.0202 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.5 mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	9 mg/kg	2.976	26.786	mg/kg	0.00268 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.2 mg/kg	2.554	3.064 mg/kg	0.000306 %		
	034-002-00-8									
12	zinc { zinc sulphate }				125 mg/kg	2.469	308.662 mg/kg	0.0309 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
13	naphthalene				0.9 mg/kg		0.9 mg/kg	0.00009 %		
	601-052-00-2	202-049-5	91-20-3							
14	acenaphthylene				1.2 mg/kg		1.2 mg/kg	0.00012 %		
		205-917-1	208-96-8							
15	acenaphthene				5.1 mg/kg		5.1 mg/kg	0.00051 %		
		201-469-6	83-32-9							
16	fluorene				3.5 mg/kg		3.5 mg/kg	0.00035 %		
		201-695-5	86-73-7							
17	phenanthrene				78.7 mg/kg		78.7 mg/kg	0.00787 %		
		201-581-5	85-01-8							
18	anthracene				23.2 mg/kg		23.2 mg/kg	0.00232 %		
		204-371-1	120-12-7							
19	fluoranthene				127 mg/kg		127 mg/kg	0.0127 %		
		205-912-4	206-44-0							
20	pyrene				98.7 mg/kg		98.7 mg/kg	0.00987 %		
		204-927-3	129-00-0							
21	benzo[a]anthracene				64.3 mg/kg		64.3 mg/kg	0.00643 %		
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				61.3 mg/kg		61.3 mg/kg	0.00613 %		
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				57.1 mg/kg		57.1 mg/kg	0.00571 %		
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				48.1 mg/kg		48.1 mg/kg	0.00481 %		
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				54.5 mg/kg		54.5 mg/kg	0.00545 %		
	601-032-00-3	200-028-5	50-32-8							
26	indeno[123-cd]pyrene				36.4 mg/kg		36.4 mg/kg	0.00364 %		
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				11.6 mg/kg		11.6 mg/kg	0.00116 %		
	601-041-00-2	200-181-8	53-70-3							
28	benzo[ghi]perylene				31.1 mg/kg		31.1 mg/kg	0.00311 %		
		205-883-8	191-24-2							
29	TPH (C6 to C40) petroleum group				149 mg/kg		149 mg/kg	0.0149 %		
			TPH							
Total:								0.154 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because No free product identified in sample. TPH in soil unlikely to be flammable at reported concentration.**

Classification of sample: WS04

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	WS04	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.10 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content:	13%	Entry:	
	(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 13% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number					
1	pH				10.8 pH	10.8 pH		
2	arsenic { arsenic trioxide }				9.4 mg/kg	1.32	12.411 mg/kg	0.00124 %
	033-003-00-0	215-481-4	1327-53-3					
3	boron { boron tribromide/trichloride/trifluoride (combined) }				0.8 mg/kg	13.43	10.744 mg/kg	0.00107 %
			10294-33-4, 10294-34-5, 7637-07-2					
4	cadmium { cadmium sulfide }	1			<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %
	048-010-00-4	215-147-8	1306-23-6					<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide }				22.6 mg/kg	1.462	33.031 mg/kg	0.0033 %
		215-160-9	1308-38-9					
6	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %
	024-001-00-0	215-607-8	1333-82-0					<LOD
7	copper { copper sulphate pentahydrate }				19.4 mg/kg	3.929	76.224 mg/kg	0.00762 %
	029-023-00-4	231-847-6	7758-99-8					
8	lead { lead chromate }	1			192 mg/kg	1.56	299.485 mg/kg	0.0192 %
	082-004-00-2	231-846-0	7758-97-6					
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %
	080-010-00-X	231-299-8	7487-94-7					<LOD
10	nickel { nickel chromate }				14.3 mg/kg	2.976	42.561 mg/kg	0.00426 %
	028-035-00-7	238-766-5	14721-18-7					
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %
	034-002-00-8							<LOD
12	zinc { zinc sulphate }				60.1 mg/kg	2.469	148.405 mg/kg	0.0148 %
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]					

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
14	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-917-1	208-96-8								
15	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-469-6	83-32-9								
16	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
17	phenanthrene				0.4 mg/kg		0.4 mg/kg	0.00004 %			
		201-581-5	85-01-8								
18	anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
		204-371-1	120-12-7								
19	fluoranthene				0.9 mg/kg		0.9 mg/kg	0.00009 %			
		205-912-4	206-44-0								
20	pyrene				0.9 mg/kg		0.9 mg/kg	0.00009 %			
		204-927-3	129-00-0								
21	benzo[a]anthracene				0.7 mg/kg		0.7 mg/kg	0.00007 %			
	601-033-00-9	200-280-6	56-55-3								
22	chrysene				0.9 mg/kg		0.9 mg/kg	0.00009 %			
	601-048-00-0	205-923-4	218-01-9								
23	benzo[b]fluoranthene				0.6 mg/kg		0.6 mg/kg	0.00006 %			
	601-034-00-4	205-911-9	205-99-2								
24	benzo[k]fluoranthene				0.9 mg/kg		0.9 mg/kg	0.00009 %			
	601-036-00-5	205-916-6	207-08-9								
25	benzo[a]pyrene; benzo[def]chrysene				0.9 mg/kg		0.9 mg/kg	0.00009 %			
	601-032-00-3	200-028-5	50-32-8								
26	indeno[123-cd]pyrene				0.9 mg/kg		0.9 mg/kg	0.00009 %			
		205-893-2	193-39-5								
27	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
28	benzo[ghi]perylene				0.5 mg/kg		0.5 mg/kg	0.00005 %			
		205-883-8	191-24-2								
29	TPH (C6 to C40) petroleum group				195 mg/kg		195 mg/kg	0.0195 %			
			TPH								
Total:									0.0724 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
No free product identified in sample. TPH in soil unlikely to be flammable at reported concentration.

Classification of sample: WS05

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	WS05	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.10 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	
Moisture content:	15% (no correction)			

Hazard properties

None identified

Determinands

Moisture content: 15% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number					
1	pH				8.3 pH	8.3 pH		
2	arsenic { arsenic trioxide }				13.9 mg/kg	1.32	18.353 mg/kg	0.00184 %
	033-003-00-0	215-481-4	1327-53-3					
3	boron { boron tribromide/trichloride/trifluoride (combined) }				1 mg/kg	13.43	13.43 mg/kg	0.00134 %
			10294-33-4, 10294-34-5, 7637-07-2					
4	cadmium { cadmium sulfide }	1			<0.5 mg/kg	1.285	<0.643 mg/kg	<0.00005 %
	048-010-00-4	215-147-8	1306-23-6					<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide }				17.9 mg/kg	1.462	26.162 mg/kg	0.00262 %
		215-160-9	1308-38-9					
6	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %
	024-001-00-0	215-607-8	1333-82-0					<LOD
7	copper { copper sulphate pentahydrate }				23.1 mg/kg	3.929	90.761 mg/kg	0.00908 %
	029-023-00-4	231-847-6	7758-99-8					
8	lead { lead chromate }	1			126 mg/kg	1.56	196.537 mg/kg	0.0126 %
	082-004-00-2	231-846-0	7758-97-6					
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %
	080-010-00-X	231-299-8	7487-94-7					<LOD
10	nickel { nickel chromate }				17 mg/kg	2.976	50.597 mg/kg	0.00506 %
	028-035-00-7	238-766-5	14721-18-7					
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %
	034-002-00-8							<LOD
12	zinc { zinc sulphate }				82.9 mg/kg	2.469	204.705 mg/kg	0.0205 %
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]					

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
14	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
15	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
16	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
17	phenanthrene				1.5 mg/kg		1.5 mg/kg	0.00015 %		
		201-581-5	85-01-8							
18	anthracene				0.3 mg/kg		0.3 mg/kg	0.00003 %		
		204-371-1	120-12-7							
19	fluoranthene				3.5 mg/kg		3.5 mg/kg	0.00035 %		
		205-912-4	206-44-0							
20	pyrene				2.9 mg/kg		2.9 mg/kg	0.00029 %		
		204-927-3	129-00-0							
21	benzo[a]anthracene				1.6 mg/kg		1.6 mg/kg	0.00016 %		
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				2 mg/kg		2 mg/kg	0.0002 %		
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				2.1 mg/kg		2.1 mg/kg	0.00021 %		
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				2 mg/kg		2 mg/kg	0.0002 %		
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				1.9 mg/kg		1.9 mg/kg	0.00019 %		
	601-032-00-3	200-028-5	50-32-8							
26	indeno[123-cd]pyrene				1.4 mg/kg		1.4 mg/kg	0.00014 %		
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				0.4 mg/kg		0.4 mg/kg	0.00004 %		
	601-041-00-2	200-181-8	53-70-3							
28	benzo[ghi]perylene				1.5 mg/kg		1.5 mg/kg	0.00015 %		
		205-883-8	191-24-2							
29	TPH (C6 to C40) petroleum group				26.6 mg/kg		26.6 mg/kg	0.00266 %		
			TPH							
Total:								0.0583 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
No free product identified in sample. TPH in soil unlikely to be flammable at reported concentration.

Classification of sample: WS06

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	WS06	LoW Code:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.20 m	Chapter:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content:	14.6% (no correction)	Entry:	

Hazard properties

None identified

Determinands

Moisture content: 14.6% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number					
1	pH				6.5 pH	6.5 pH		
2	arsenic { arsenic trioxide }				13 mg/kg	1.32	17.164 mg/kg	0.00172 %
	033-003-00-0	215-481-4	1327-53-3					
3	boron { boron tribromide/trichloride/trifluoride (combined) }				0.9 mg/kg	13.43	12.087 mg/kg	0.00121 %
			10294-33-4, 10294-34-5, 7637-07-2					
4	cadmium { cadmium sulfide }			1	1.3 mg/kg	1.285	1.671 mg/kg	0.00013 %
	048-010-00-4	215-147-8	1306-23-6					
5	chromium in chromium(III) compounds { chromium(III) oxide }				18.9 mg/kg	1.462	27.623 mg/kg	0.00276 %
		215-160-9	1308-38-9					
6	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %
	024-001-00-0	215-607-8	1333-82-0					<LOD
7	copper { copper sulphate pentahydrate }				18.9 mg/kg	3.929	74.259 mg/kg	0.00743 %
	029-023-00-4	231-847-6	7758-99-8					
8	lead { lead chromate }			1	477 mg/kg	1.56	744.032 mg/kg	0.0477 %
	082-004-00-2	231-846-0	7758-97-6					
9	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %
	080-010-00-X	231-299-8	7487-94-7					<LOD
10	nickel { nickel chromate }				16 mg/kg	2.976	47.62 mg/kg	0.00476 %
	028-035-00-7	238-766-5	14721-18-7					
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %
	034-002-00-8							<LOD
12	zinc { zinc sulphate }				891 mg/kg	2.469	2200.143 mg/kg	0.22 %
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]					

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	naphthalene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-052-00-2	202-049-5	91-20-3							
14	acenaphthylene				0.6 mg/kg		0.6 mg/kg	0.00006 %		
		205-917-1	208-96-8							
15	acenaphthene				2.1 mg/kg		2.1 mg/kg	0.00021 %		
		201-469-6	83-32-9							
16	fluorene				1.6 mg/kg		1.6 mg/kg	0.00016 %		
		201-695-5	86-73-7							
17	phenanthrene				20.7 mg/kg		20.7 mg/kg	0.00207 %		
		201-581-5	85-01-8							
18	anthracene				6.6 mg/kg		6.6 mg/kg	0.00066 %		
		204-371-1	120-12-7							
19	fluoranthene				39.8 mg/kg		39.8 mg/kg	0.00398 %		
		205-912-4	206-44-0							
20	pyrene				32.3 mg/kg		32.3 mg/kg	0.00323 %		
		204-927-3	129-00-0							
21	benzo[a]anthracene				21.8 mg/kg		21.8 mg/kg	0.00218 %		
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				22 mg/kg		22 mg/kg	0.0022 %		
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				22.1 mg/kg		22.1 mg/kg	0.00221 %		
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				19.4 mg/kg		19.4 mg/kg	0.00194 %		
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				21.2 mg/kg		21.2 mg/kg	0.00212 %		
	601-032-00-3	200-028-5	50-32-8							
26	indeno[123-cd]pyrene				14.5 mg/kg		14.5 mg/kg	0.00145 %		
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				4.6 mg/kg		4.6 mg/kg	0.00046 %		
	601-041-00-2	200-181-8	53-70-3							
28	benzo[ghi]perylene				12.8 mg/kg		12.8 mg/kg	0.00128 %		
		205-883-8	191-24-2							
29	TPH (C6 to C40) petroleum group				116 mg/kg		116 mg/kg	0.0116 %		
			TPH							
Total:								0.322 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
No free product identified in sample. TPH in soil unlikely to be flammable at reported concentration.

Classification of sample: WS07

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	WS07	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.10 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)	
Moisture content:	11.1% (no correction)			

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R52/53 "Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

benzo[a]anthracene: (conc.: 0.00637%)

Determinands

Moisture content: 11.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	pH				8.4 pH		8.4	pH	8.4 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	19.8 mg/kg	1.32	26.142	mg/kg	0.00261 %		
3	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		1 mg/kg	13.43	13.43	mg/kg	0.00134 %		
4	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.5 mg/kg	1.285	<0.643	mg/kg	<0.00005 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		29.1 mg/kg	1.462	42.531	mg/kg	0.00425 %		
6	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.8 mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<LOD
7	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8	27.5 mg/kg	3.929	108.049	mg/kg	0.0108 %		
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	94.6 mg/kg	1.56	147.559	mg/kg	0.00946 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.5 mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	27.5 mg/kg	2.976	81.847	mg/kg	0.00818 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
12	zinc { zinc sulphate }				192 mg/kg	2.469	474.105 mg/kg	0.0474 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
13	naphthalene				0.5 mg/kg		0.5 mg/kg	0.00005 %			
	601-052-00-2	202-049-5	91-20-3								
14	acenaphthylene				5.2 mg/kg		5.2 mg/kg	0.00052 %			
		205-917-1	208-96-8								
15	acenaphthene				2 mg/kg		2 mg/kg	0.0002 %			
		201-469-6	83-32-9								
16	fluorene				2 mg/kg		2 mg/kg	0.0002 %			
		201-695-5	86-73-7								
17	phenanthrene				33.5 mg/kg		33.5 mg/kg	0.00335 %			
		201-581-5	85-01-8								
18	anthracene				12.5 mg/kg		12.5 mg/kg	0.00125 %			
		204-371-1	120-12-7								
19	fluoranthene				105 mg/kg		105 mg/kg	0.0105 %			
		205-912-4	206-44-0								
20	pyrene				89.1 mg/kg		89.1 mg/kg	0.00891 %			
		204-927-3	129-00-0								
21	benzo[a]anthracene				63.7 mg/kg		63.7 mg/kg	0.00637 %			
	601-033-00-9	200-280-6	56-55-3								
22	chrysene				61.3 mg/kg		61.3 mg/kg	0.00613 %			
	601-048-00-0	205-923-4	218-01-9								
23	benzo[b]fluoranthene				69.3 mg/kg		69.3 mg/kg	0.00693 %			
	601-034-00-4	205-911-9	205-99-2								
24	benzo[k]fluoranthene				58.1 mg/kg		58.1 mg/kg	0.00581 %			
	601-036-00-5	205-916-6	207-08-9								
25	benzo[a]pyrene; benzo[def]chrysene				67.1 mg/kg		67.1 mg/kg	0.00671 %			
	601-032-00-3	200-028-5	50-32-8								
26	indeno[123-cd]pyrene				47 mg/kg		47 mg/kg	0.0047 %			
		205-893-2	193-39-5								
27	dibenz[a,h]anthracene				13.5 mg/kg		13.5 mg/kg	0.00135 %			
	601-041-00-2	200-181-8	53-70-3								
28	benzo[ghi]perylene				41.7 mg/kg		41.7 mg/kg	0.00417 %			
		205-883-8	191-24-2								
29	TPH (C6 to C40) petroleum group				119 mg/kg		119 mg/kg	0.0119 %			
			TPH								
Total:									0.164 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because No free product identified in sample. TPH in soil unlikely to be flammable at reported concentration.**

Classification of sample: WS08

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	WS08	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.20 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	
Moisture content:	19%			
	(no correction)			

Hazard properties

None identified

Determinands

Moisture content: 19% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number					
1	pH				7.6 pH	7.6 pH		
2	arsenic { arsenic trioxide }				30.4 mg/kg	1.32	40.138 mg/kg	0.00401 %
	033-003-00-0	215-481-4	1327-53-3					
3	boron { boron tribromide/trichloride/trifluoride (combined) }				2.6 mg/kg	13.43	34.918 mg/kg	0.00349 %
			10294-33-4, 10294-34-5, 7637-07-2					
4	cadmium { cadmium sulfide }	1			0.7 mg/kg	1.285	0.9 mg/kg	0.00007 %
	048-010-00-4	215-147-8	1306-23-6					
5	chromium in chromium(III) compounds { chromium(III) oxide }				24.8 mg/kg	1.462	36.247 mg/kg	0.00362 %
		215-160-9	1308-38-9					
6	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %
	024-001-00-0	215-607-8	1333-82-0					<LOD
7	copper { copper sulphate pentahydrate }				91.4 mg/kg	3.929	359.115 mg/kg	0.0359 %
	029-023-00-4	231-847-6	7758-99-8					
8	lead { lead chromate }	1			590 mg/kg	1.56	920.291 mg/kg	0.059 %
	082-004-00-2	231-846-0	7758-97-6					
9	mercury { mercury dichloride }				3.2 mg/kg	1.353	4.331 mg/kg	0.000433 %
	080-010-00-X	231-299-8	7487-94-7					
10	nickel { nickel chromate }				37.1 mg/kg	2.976	110.419 mg/kg	0.011 %
	028-035-00-7	238-766-5	14721-18-7					
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.9 mg/kg	2.554	4.852 mg/kg	0.000485 %
	034-002-00-8							
12	zinc { zinc sulphate }				291 mg/kg	2.469	718.565 mg/kg	0.0719 %
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]					

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
14	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
15	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
16	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
17	phenanthrene				0.7 mg/kg		0.7 mg/kg	0.00007 %		
		201-581-5	85-01-8							
18	anthracene				0.2 mg/kg		0.2 mg/kg	0.00002 %		
		204-371-1	120-12-7							
19	fluoranthene				1.6 mg/kg		1.6 mg/kg	0.00016 %		
		205-912-4	206-44-0							
20	pyrene				1.4 mg/kg		1.4 mg/kg	0.00014 %		
		204-927-3	129-00-0							
21	benzo[a]anthracene				1 mg/kg		1 mg/kg	0.0001 %		
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				1.4 mg/kg		1.4 mg/kg	0.00014 %		
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				1.2 mg/kg		1.2 mg/kg	0.00012 %		
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				1.5 mg/kg		1.5 mg/kg	0.00015 %		
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				1.4 mg/kg		1.4 mg/kg	0.00014 %		
	601-032-00-3	200-028-5	50-32-8							
26	indeno[123-cd]pyrene				1.9 mg/kg		1.9 mg/kg	0.00019 %		
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				0.5 mg/kg		0.5 mg/kg	0.00005 %		
	601-041-00-2	200-181-8	53-70-3							
28	benzo[ghi]perylene				0.9 mg/kg		0.9 mg/kg	0.00009 %		
		205-883-8	191-24-2							
29	TPH (C6 to C40) petroleum group				3 mg/kg		3 mg/kg	0.0003 %		
			TPH							
Total:								0.192 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
No free product identified in sample. TPH in soil unlikely to be flammable at reported concentration.

Appendix A: Classifier defined and non CLP determinands

■ pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25/05/2015
Risk Phrases: None.
Hazard Statements: None.

■ boron tribromide/trichloride/trifluoride (combined) (CAS Number: 10294-33-4, 10294-34-5, 7637-07-2)

Conversion factor: 13.43
Description/Comments: Combines the hazard statements and the average of the conversion factors for boron tribromide, boron trichloride and boron trifluoride
Data source: N/A
Data source date: 06/08/2015
Risk Phrases: R14 , T+ R26/28 , C R34 , C R35
Hazard Statements: EUH014 , Acute Tox. 2 H330 , Acute Tox. 2 H300 , Skin Corr. 1A H314 , Skin Corr. 1B H314

■ chromium(III) oxide (EC Number: 215-160-9, CAS Number: 1308-38-9)

Conversion factor: 1.462
Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17/07/2015
Risk Phrases: R20 , R22 , R36 , R37 , R38 , R42 , R43 , R50/53 , R60 , R61
Hazard Statements: Acute Tox. 4 H332 , Acute Tox. 4 H302 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Resp. Sens. 1 H334 , Skin Sens. 1 H317 , Repr. 1B H360FD , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

■ copper sulphate pentahydrate (EC Number: 231-847-6, CAS Number: 7758-99-8)

CLP index number: 029-023-00-4
Data source: Regulation (EU) 2016/1179 of 19 July 2016 (ATP9)
Additional Risk Phrases: N R50/53 , N R50/53 >= 2.5 %
Additional Hazard Statement(s): None.
Reason for additional Hazards Statement(s)/Risk Phrase(s):
10/10/2016 - N R50/53 risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases
10/10/2016 - N R50/53 >= 2.5 % risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases

■ acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17/07/2015
Risk Phrases: R22 , R26 , R27 , R36 , R37 , R38
Hazard Statements: Acute Tox. 4 H302 , Acute Tox. 1 H330 , Acute Tox. 1 H310 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315

■ acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17/07/2015
Risk Phrases: R36 , R37 , R38 , N R50/53 , N R51/53
Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Aquatic Chronic 2 H411

■ fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06/08/2015
Risk Phrases: N R50/53
Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

■ phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06/08/2015
Risk Phrases: R22 , R36 , R37 , R38 , R40 , R43 , N R50/53
Hazard Statements: Acute Tox. 4 H302 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Carc. 2 H351 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Skin Irrit. 2 H315

• **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17/07/2015

Risk Phrases: R36 , R37 , R38 , R43 , N R50/53

Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

• **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21/08/2015

Risk Phrases: Xn R22 , N R50/53

Hazard Statements: Acute Tox. 4 H302 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

• **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21/08/2015

Risk Phrases: Xi R36/37/38 , N R50/53

Hazard Statements: Skin Irrit. 2 H315 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

• **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06/08/2015

Risk Phrases: R40

Hazard Statements: Carc. 2 H351

• **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 23/07/2015

Risk Phrases: N R50/53

Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

• **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25/05/2015

Risk Phrases: R10 , R45 , R46 , R51/53 , R63 , R65

Hazard Statements: Flam. Liq. 3 H226 , Asp. Tox. 1 H304 , STOT RE 2 H373 , Muta. 1B H340 , Carc. 1B H350 , Repr. 2 H361d , Aquatic Chronic 2 H411

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species

boron {boron tribromide/trichloride/trifluoride (combined)}

Worst case species

cadmium {cadmium sulfide}

Worst case species

chromium in chromium(III) compounds {chromium(III) oxide}

Worst case species

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case species

copper {copper sulphate pentahydrate}

Worst case species

lead {lead chromate}

Worst case species

mercury {mercury dichloride}

Worst case species

nickel {nickel chromate}

Worst case species

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Worst case species

zinc {zinc sulphate}

Cr(VI) not present

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition, May 2015**

HazWasteOnline Classification Engine Version: 2017.269.3405.6897 (26 Sep 2017)

HazWasteOnline Database: 2017.269.3405.6897 (26 Sep 2017)

This classification utilises the following guidance and legislation:

WM3 - Waste Classification - May 2015

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004

1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010

2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010